Annex C: Relativistic rocket equation

For numerical calculation, the equations derived in chapter 6.4.2

$$p_K + p_K' = (m_{K-1} - \Delta m_{K-1}) v_K \gamma_K + \Delta m_{K-1} v_K' \gamma_K' = m_{K-1} v_{K-1} \gamma_{K-1}$$
(6.84)

and

$$v_K' = \frac{v_K + v_0'}{1 + \frac{v_K v_0'}{c^2}} \tag{6.85}$$

are used. For the determination of v_K , as already presented in other chapters, the method of bisection was chosen (see also the comparison of different numerical calculation methods in annex D). The basis is the momentum calculation of the total system, consisting of the momentum of the rocket p_K as well as that of the propulsion gas p_K' with mass Δm_{K-1} moving in the opposite direction, and the determination of the corresponding rocket velocity v_K . Due to the law of conservation of momentum, the total value must be constant before and after the velocity increase of the rocket including the consideration of mass ejection.

First, suitable starting values for $(v_+)_0$ and $(v_-)_0$ must be defined; it makes sense that these values should be far apart since it must be ensured that the final result v_K lies within these limits. Thereupon a new index L is defined. Now the mean value

$$(v_K)_{L=1} = \frac{(v_+)_0 + (v_-)_0}{2}$$
 (C.01)

is formed and for the velocity calculated here the momentum is determined according to equation (6.84). Then the following definitions must be used:

$$(p_{K} + p'_{K})_{L=1} > m_{K-1}v_{K-1}\gamma_{K-1} \Rightarrow \begin{cases} (v_{+})_{1} = (v)_{1} \\ (v_{-})_{1} = (v_{-})_{0} \end{cases}$$
(C. 02)

$$(p_{K} + p'_{K})_{L=1} \le m_{K-1} v_{K-1} \gamma_{K-1} \Rightarrow \begin{cases} (v_{+})_{1} = (v_{+})_{0} \\ (v_{-})_{1} = (v)_{1} \end{cases}$$
(C. 03)

This calculation is repeated with increasing index L until the results for v_+ and v_- are equal. Thus, the velocity of the rocket, whose mass is now reduced by Δm_{K-1} , is determined for this partial step. Subsequently, the next step is performed for K=2 and so on.

The time that subjectively elapses inside the rocket between the emission of 2 signals is by definition Δt_0 . For an external observer the view is different, and the value must be supplemented according to

$$\Delta t_K = \Delta t_0 \gamma_K \tag{C. 04}$$

and the distance covered is

$$\Delta x_K = \Delta t_K v_K \tag{C.05}$$

After adding all N single values, the final result is

$$t_N = \sum_{K=1}^{N} \Delta t_0 \gamma_K \tag{C.06}$$

$$x_N = \sum_{K=1}^{N} \Delta t_0 v_K \tag{C.07}$$

At any arbitrary time t_K , a signal is sent back from the accelerated system S to the observers A and B. Observer A has moved with the same velocity as the rocket at the beginning of the experiment and continues its path without acceleration, while B measures a velocity v_0 with respect to A. From B's point of view, A is either moving in direction to S or in the opposite way during signal propagation. In case of $v_0 \neq 0$ the values for acceleration a_K and velocity v_0 can each be positive or negative, so different arrangements must be made for performing the calculations. This was already done in a similar form in Chap. 6.4.1 with the equations Eq. (6.60) to (6.74), but there the acceleration of the rocket was kept constant over the entire course of the experiment. In contrast, here the exit direction of the propulsion gas v' represents the effect of precondition. If v' > 0 then the acceleration is negative, at v' < 0 it is positive. The equations used in section 6.4.1 must therefore be modified with respect to the boundary conditions and read as follows here

$$v' < 0 \ (a_S > 0)$$
: $t_{K,R} = \frac{x_K - v_0 t_K}{c \left(1 + \frac{v_0}{c}\right)}$ (C. 08)

$$v' > 0 \quad (a_S < 0):$$
 $t_{K,R} = \frac{|x_K - v_0 t_K|}{c \left(1 - \frac{v_0}{c}\right)}$ (C. 09)

Thus, for the limiting case applies

$$v_0 = 0:$$
 $t_{K,R} = \frac{|x_K|}{c}$ (C. 10)

Generally follows

$$t_T(K) = \frac{t_K + t_{K,R}}{\gamma(v_0)} \tag{C.11}$$

In addition, for the determined final velocity v_N , the following is specified for different system velocities v_0 for better comparability of the calculations

$$v_T = v_N - v_0 \tag{C.12}$$

C.2 Specific specifications for the calculation

When defining the boundary conditions for the calculation, the ratio of outflowing mass per time interval is relevant. In order to simplify the representation, here the outflow mass of the rocket is normalized to 1 and the standard time interval, valid subjectively inside the rocket, is set to $\Delta t_0 = 1$ s. From this it follows, for example, for the case when 0.5% of the rocket mass flows out per second for propulsion, that when 50% of the mass is ejected, a total of 100 iteration steps have been performed. This case can be defined for the calculations using the form

$$\Delta m_0 = \Delta t_0 \cdot 0.5\%$$
 $N/\Delta t_0 = 100$ (C. 13)

If, for example, the number of iteration steps is then increased by a factor of 10, the time interval and the outflowing supporting mass are reduced by the same factor for the subsequent calculations.

The initial values of the velocities $(v_+)_{L=0}$ and $(v_-)_{L=0}$ for the bisection should be chosen far apart, but the mean value must be non-zero, otherwise there will be disturbances during the calculation; $(v_+)_{L=0} = 0.9c$ and $(v_-)_{L=0} = -0.8c$ were chosen in this case.

C.3 Flowchart and VBA program code of the process

A flow chart (Fig. C.1) shows how the running program is designed. It is a process with two nested iteration loops; the running indices have been labeled K and L. The representation of the VBA program code (Fig. C.2) follows the flowchart representation. The VBA codes used for the formula characters are shown in the following listing.

Symbol	VBA-Code	Symbol	VBA-Code	Symbol	VBA-Code
v_0	v0	v_0'	v0g	Δt_0	dt0
$(v_+)_L$	vmax	$(v_{-})_{L}$	vmin	$(v_+)_{L=0}$	vmax0
$(v_{-})_{L=0}$	vmin0	t_K	tK	t_{K-1}	tKm1
t_T	tT	x_K	хK	$t_{K,R}$	tKR
$(v_K)_L$	vL	v_{K-1}	vKm1	v_K	vK
m_K	mK	Δm_0	dm0	$arDelta m_K$	dmK
p_{K-1}	pKm1	$(p_K + p_K')_L$	рL	v_K'	vKg
$(v_K)_{L-1}$	vLm1	$(v_K')_L$	vLg	v_T	VT
a_K	aK	γ^3	Ga3	$\gamma^3 a_K$	aKGa3

Tab. C.1: Formula symbols and referring VBA-Codes

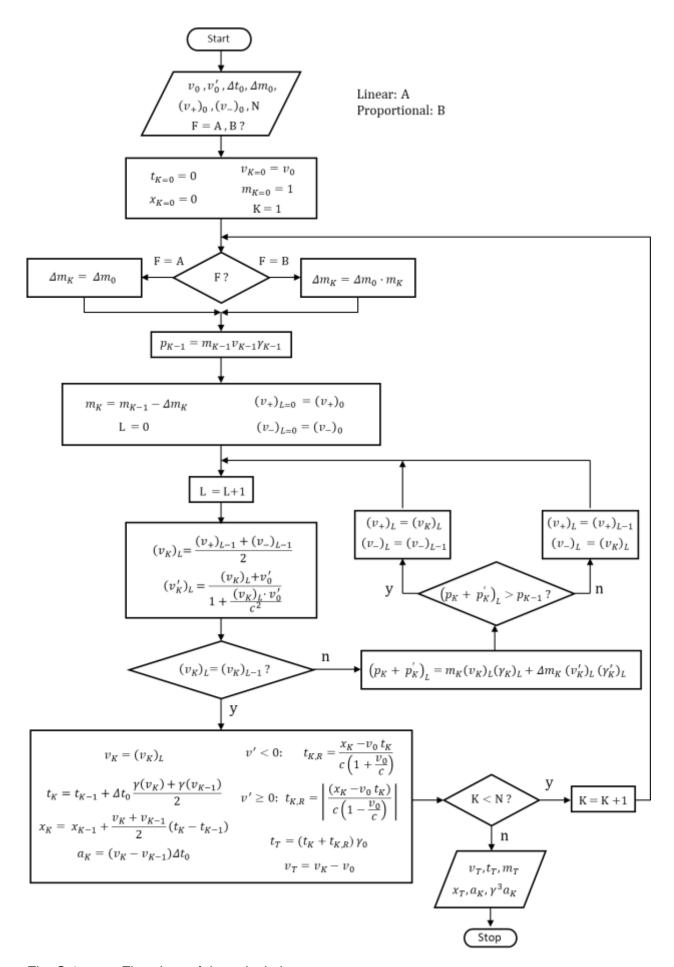


Fig. C.1: Flowchart of the calculation process

```
Sub C()
Dim v0, v0g, tS, dtS, dm0, mF, vmax0, vmin0, vmax, vmin, mK, tK As Double
Dim tKm1, tKR, tT, xK, vK, vKm1, dmK, pKm1, pL, vL, vLm1 As Double
Dim N, K, L, vKg, vT, vLg, c, aK, Ga3, aKGa3 As Double
Dim F, A1, A2, B1, B2 As String
'Input
   F = "B1"
                        'Define A1, A2, B1 or B2
                        'A: Linear mass reduction, B: Prop. mass reduction
                        ^{\prime}1: Def. number of iteration steps, 2: Def. end mass
    v0 = 0
                        'Initial velocity in km/s
                        'Initial velocity gas in km/s
    v0g = -4
                        'Initial output mass in %/s
    dm0 = 0.25 / 100
'Specific input Def. 1
                        'Time until a signal is emitted
   ts = 400
    N = 1000
                        'Number of iteration steps
'Specific input Def. 2
                        'Iteration time in s
   dtS = 1
    mF = 10 / 100
                        'Mass at end of trial in %
'Start Calculation
    If F = "A1" Or F = "A2" Or F = "B1" Or F = "B2" Then
        GoTo Calc:
        Else
        Debug.Print "Input error: Chose A1, A2, B1, or B2"
        GoTo Out1:
        End If
Calc:
    If F = "A1" Or F = "B1" Then
        dtS = tS / N
        End If
    mK = 1
                         'Initial value mass
    vmax0 = 0.9
                         'Initial value max. for calculation (in rel. to c)
                         'Initial value min. for calculation (in rel. to c)
    vmin0 = -0.8
    c = 299792.458
                         'speed of light in km/s
    tK = 0
    xK = 0
    vK = v0 / c
    v0g = v0g / c
Mainloop:
        K = K + 1
        If F = "A1" Or F = "A2" Then
            dmK = dm0 * dtS
            Else
            dmK = dm0 * dtS * mK
            End If
        pKm1 = mK * vK / (1 - vK ^ 2) ^ 0.5
                                                'Momentum rocket for K - 1
        mK = mK - dmK
                                                 'Rest rocket mass for K
        If mK \le 0 Then
           K = K - 1
            mK = mK + dmK
            Debug.Print "Rocket mass zero"
            GoTo Out2:
           End If
        vmax = vmax0
        vmin = vmin0
                                                 'Req.: vmin0 unequal -vmax0
        L = 0
Do
       L = L + 1
        vLm1 = vL
        vL = (vmax + vmin) / 2
        vLg = (vL + v0g) / (1 + vL * v0g)
        pL = mK * vL / (1 - vL ^ 2) ^ 0.5 + dmK * vLg / (1 - vLg ^ 2) ^ 0.5
```

```
If pL > pKm1 Then
            vmax = vL
            Else: vmin = vL
           End If
Loop Until vLm1 = vL
   vKm1 = vK
    vK = vL
    vKg = vLg
    tKm1 = tK
    tK = tK + dtS * (1 / (1 - vK^2) ^ 0.5 + 1 / (1 - vKm1 ^ 2) ^ 0.5) / 2
    xK = xK + (vK + vKm1) / 2 * (tK - tKm1) * c
    aK = (vK - vKm1) / (dtS / (1 - ((vK + vKm1) / 2) ^ 2) ^ 0.5) * c * 1000
    Ga3 = (1 / (1 - ((vK + vKm1) / 2) ^ 2)) ^ 1.5
    If v0g > 0 Then
            tKR = Abs(xK - v0 * tK) / c / (1 - v0 / c)
            Else: tKR = (xK - v0 * tK) / c / (1 + v0 / c)
            End If
        tT = (tK + tKR) * (1 - (v0 / c) ^ 2) ^ 0.5
        vT = (vK * c - v0)
        aKGa3 = aK * Ga3
    If F = "A1" Or F = "B1" Then
        If K < N Then
            GoTo Mainloop:
            End If
       End If
    If F = "A2" Or F = "B2" Then
        If mK > mF Then
            GoTo Mainloop:
            End If
        End If
O11 t.2:
Results in view of an observer moving with v0 at beginning of trial
Debug.Print "vT =", vT 'velocity when signal is emitted in km/s
Debug.Print "tN =", tK 'Total time until a signal is emitted in s
Debug.Print "tT =", tT 'Total time for transmission of signal in s
Debug.Print "mN =", mK 'Rocket mass at emission in relation to 1
Debug.Print "xN =", xK 'Distance covered at emission of signal in km
Debug.Print "aN =", aK 'Acceleration in m/s<sup>2</sup>
Debug.Print "aNGa3 =", aKGa3
                               'Acceleration * Gamma ^ 3 in m/s<sup>2</sup>
Out1:
End Sub
```

Fig. C2: VBA Program-Code for the calculation process presented in Fig. C1

In the following tables Tab. C.2, C.3 and C.4 supplementary calculations are shown according to Tab. 6.4 from Chap. 6.4.2. Instead of using the program "A1", the variant "A2" could also have been selected. In this case, the desired final value of the rocket mass and the iteration time are specified, and the number of iteration steps results from the calculation. Example from Tab C2: Parameters "A1" $t_S=100s$, N=1000 correspond to "A2" $m_F=50\%$ and $\Delta t_S=0.1s$. The calculated value for K is then N=1001. The results are very similar, but not completely identical. Since in this case the influence of the number of iteration steps was in the foreground, calculation "A1" was chosen.

The values of t_T are of particular interest for comparisons, since they would be accessible for experimental testing due to the simple use of precision clocks. The results of t_T obtained here are shown separately in Tab. 6.6, Tab. 6.7 and Fig. 6.4, but do not show any systematic differences, so that the principle of relativity is also observed here as in all other cases.

N	Fz	t _F	m_N	X _N	N	Pr	t _T	m_N	Xw
10	2,67508561278727	100,000397329364	0,5000000000000000	119,116010675216	10	2,67508151022224	100,000397329361	0,5000000000000000	37019,1440520908
102	2,76261372200990	100,000408141269	0,500000000000000	122,357320955608	102	2,76260948280941	100,000408141266	0,500000000000000	37022,3853647753
101	2,77158897232187	100,000409292747	0,500000000000055	122,702523336750	10^{3}	2,77158471909860	100,000409292744	0,500000000000055	37022,730567412
10*	2,77248872482278	100,000409408634	0,5000000000000055	122,737265091767	10*	2,77248447045912	100,000409408630	0,5000000000000055	37022,7653092072
102	2,77257872237194	100,000409420246	0,49999999996724	122,740741494222	102	2,77257447227356	100,000409420227	0,49999999996724	37022,7687858303
106	2,77258772224753	100,000409422400	0,5000000000041133	122,741089155569	104	2,77258347644647	100.000409421377	0,5000000000041133	37022,7691339111
107	2,77258862465211	100,000409440862	0,499999999708066	122,741124020357	107	2,77258481950150	100.000409421716	0,499999999708066	37022,7691906500
	δυ ₊	δt_{T}	8m _N	δx_{ij}	100	δυ ₊	δt_T	8m _N	δx_{ij}
1.00					100	15			
ž	8,9931	1,4064-10-3		3,4698 - 102	x	8,9943	1,1550 - 10 - 3		3,4709 - 10
103	8,7528-10-3	1,0812- 10-5	0	3,2413	103	8,7528 · 10-2	1,0812 - 10-5	0	3,2413
103	8,9753 - 10 ⁻³	1,1515- 10-7	5,4956 - 10 ⁻¹⁴	3,4520 - 10-1	103	8,9752 - 10-3	1,1515 - 10-6	5,4956 · 10 ⁻¹⁴	3,4520 - 10-1
104	8,9975 - 10"4	1,1589- 10-7	0	3,4742 - 10-2	104	8,9975 - 10-4	1,1589 - 10-7	0	3,4742 - 10 - 2
101	8,9998 - 10-5	1,1612-10"	-3,3309 - 10 ⁻¹²	3,4764 - 10-3	101	9,0002 - 10 ⁻⁹	1,1597 - 10"	+3,3309 + 10 ⁻¹²	3,4766 · 10-1
10°	8,9998 - 10"	2,1540-10	4,4409 - 10-11	3,4766 - 10-4	10°	9.0042 - 10-4	1,1500 - 10 - 9	4,4409 - 10-11	3,4806 - 10
10	9,0240 - 10-7	1,8462-10-1	-3,3307 - 10 ⁻¹⁰	3,4865 · 10 ⁻³	10/	1,3431 · 10-6	3,3900 - 10-10	-3,3307 - 10 ⁻¹⁰	5,6740 · 10-1
102	8,9931 - 10"	1,4069-10"11		3,4698 - 10 -6	10*	8,9943 - 10-8	1,1553 - 10 - 11		3,4709 - 10 - 4
104	8,9931 - 10-9	1,4069-10-12		3,4698 · 10-7	104	8,9943 10"	1,1511 - 10-12		3,4709 · 10-7
1010	8,9931 - 10-10	1,4211-10-13		3,4698 - 10-8	10.00	8,9943 - 10-10	1,1369+10-13		3,4706 - 10-4
1011	8,9931+10 ⁻¹¹	0		3,4698 - 10-9	1011	8,9943 - 10-11	0		3,4706 - 10
1012	8,9933 - 10-12	0		3,4699 - 10-10	1012	8,9941 - 10-11	0		3,4925 - 10-10
1013	8,9928 - 10-19	0		3,4703 - 10 ⁻¹³	1013	8,9928 - 10-11	0		0
1014	9,0150 - 10-14	0		3,4674 - 10 - 13	1014	9,0150 - 10-14	0		
1015	8,8818 - 10 ⁻¹⁵	0		3,4106 - 10-11	1015	8,8818 - 10-15	0		
1010		1.0		. 0	1010		- 0		
	17	I _T		$x_{\mathcal{K}}$		1/7	I_T		z_{N}
107	2,77258862155768	100,000409422541		122,741123853607	107	2,77258437587408	100,000409421493		37022,7691686202
108	2,77258871148869	100,000409422555		122,741127323411	108	2,77258446581684	100,000409421504		37022,7691720911
100	2,77258872048179	100,000409422556		122,741127670391	100	2,77258447481111	100,000409421505		37022,7691724381
1010	2,77258872138110	100,000409422556		122,741127705089	1010	2,77258447571054	100,000409421505		37022,7691724729
1011	2,77258872147103	100,000409422556		122,741127708559	1011	2,77258447580048	100,000409421505		37022,7691724764
1012	2,77258872148003	100,000409422556		122,741127708906	1012	2,77258447580948	100,000409421505		37022,7691724767
1013	2,77258872148093	100,000409422556		122,741127708941	1013	2,77258447581038	100,000409421505		37022,7691724768
1014	2,77258872148102	100,000409422556		122,741127708944	1014	2,77258447581047	100,000409421505		37022,7691724768
1015	2,77258872148102	100,000409422556	a)	122,741127708945	1015	2,77258447581048	100,000409421505	b)	37022,7691724768
1010	2,77258872148102	100,000409422556	a)	122,741127708945	1010	2,77258447581048	100,000409421505	U)	37022,7691724768
N	Fy	t _r	m_N	X _N	N	Py.	t _r	m_N	X _w
10	1000	100,000397329348	0,5000000000000000	TORS.	10	The same of the sa	100,000397329281	0,5000000000000000	USBS
102				20077775565465464	10	2,01210782993243			
10		100 000300131751	A SAAAAAAAAAAAAA	200126 010200500	100	2.75053944100221	100 000409141170	6.5000000000000000	100000000000000000000000000000000000000
rol		100,000408141251		200126,810789598	101		100,000408141179	0,500000000000000	
101	2,77146532579354	100,000409292729	0,500000000000055	200127,155999630	101	2,76850369436397	100,000409292656	0,5000000000000055	1000679,56053261
10*	2,77146532579354 2,77236503944528	100,000409292729 100,000409408616	0,500000000000055 0,5000000000000055	200127,155999630 200127,190742224	10 ³ 10 ⁴	2,76850369436397 2,76940245165497	100,000409292656 100,000409408544	0,500000000000055 0,5000000000000055	1000679,56053261
10 ⁴	2,77146532579354 2,77236503944528 2,77245505647284	100,000409292729 100,000409408616 100,000409420216	0,5000000000000055 0,5000000000000055 0,499999999996724	200127,155999630 200127,190742224 200127,194219809	10 ³ 10 ⁴ 10 ²	2,76850369436397 2,76940245165497 2,76949246576442	100,000409292656 100,000409408544 100,000409420158	0,5000000000000055 0,500000000000055 0,499999999996724	1000679,56053261 1000679,59529404 1000679,59877786
10 ⁴ 10 ² 10 ⁶	2,77146532579354 2,77236503944528 2,77245505647284 2,77246407688722	100,000409292729 100,000409408616 100,000409420216 100,000409421380	0,500000000000055 0,500000000000055 0,49999999996724 0,5000000000041133	200127,155999630 200127,190742224 200127,194219809 200127,194569079	10 ³ 10 ⁴ 10 ² 10 ⁶	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825	100,000409292656 100,000409408544 100,000409420158 100,000409421342	0,500000000000055 0,500000000000055 0,499999999946724 0,5000000000041133	1000679,56053261 1000679,59529404 1000679,59877786 1000679,59913297
10 ⁴	2,77146532579354 2,77236503944528 2,77245505647284 2,77246407688722 2,77246734040796	100,000409292729 100,000409408616 100,000409420216 100,000409421380 100,000409422016	0,500000000000055 0,500000000000055 0,49999999996724 0,5000000000041133 0,49999999708066	200127,155999630 200127,190742224 200127,194219809 200127,194569079 200127,194715347	10 ³ 10 ⁴ 10 ²	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033	100,000409292656 100,000409408544 100,000409420158 100,000409421342 100,000409423363	0,500000000000055 0,500000000000055 0,499999999996724 0,5000000000041133 0,49999999708066	1000679,56053261 1000679,59529404 1000679,59877786 1000679,59913297 1000679,59971782
10 ⁴ 10 ² 10 ⁶	2,77146532579354 2,77236503944528 2,77245505647284 2,77246407688722	100,000409292729 100,000409408616 100,000409420216 100,000409421380	0,500000000000055 0,500000000000055 0,49999999996724 0,5000000000041133	200127,155999630 200127,190742224 200127,194219809 200127,194569079	10 ³ 10 ⁴ 10 ² 10 ⁶	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825	100,000409292656 100,000409408544 100,000409420158 100,000409421342	0,500000000000055 0,500000000000055 0,499999999946724 0,5000000000041133	1000679,56053261 1000679,59529404 1000679,59877786 1000679,59913297
10 ⁴ 10 ² 10 ⁶	2,77146532579354 2,77236503944528 2,77245505647284 2,77246407688722 2,77246734040796	100,000409292729 100,000409408616 100,000409420216 100,000409421380 100,000409422016	0,500000000000055 0,500000000000055 0,49999999996724 0,5000000000041133 0,49999999708066	200127,155999630 200127,190742224 200127,194219809 200127,194569079 200127,194715347	10 ³ 10 ⁴ 10 ² 10 ⁶	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033	100,000409292656 100,000409408544 100,000409420158 100,000409421342 100,000409423363	0,500000000000055 0,500000000000055 0,499999999996724 0,5000000000041133 0,49999999708066	1000679,56053261 1000679,59529404 1000679,59877786 1000679,59913297 1000679,59971782
10 ⁴ 10 ² 10 ⁶ 10 ⁷	2,77146532579354 2,77236503944528 2,77245505647284 2,77246407688722 2,77246734040796	100,000409292729 100,000409408616 100,000409420216 100,000409422016 00,000409422016	0,500000000000055 0,500000000000055 0,49999999996724 0,5000000000041133 0,49999999708066	200127,155999630 200127,190742224 200127,194219809 200127,194569079 200127,194715347	10 ³ 10 ⁴ 10 ² 10 ⁶ 10 ⁷	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033	100,000409292656 100,000409408544 100,000409420158 100,000409421342 100,000409423363	0,500000000000055 0,500000000000055 0,499999999996724 0,5000000000041133 0,49999999708066	1000679,56053261 1000679,59529404 1000679,59877786 1000679,59913297 1000679,59971782 8x ₀ 3.4913+10 ²
10 ⁴ 10 ² 10 ⁴ 10 ⁷	2,77146532579354 2,77236503944528 2,77245505647284 2,77246407688722 2,772464734040796 607 8,9985	100,000409292729 100,000409408616 100,000409420216 100,000409421380 100,000409422016 607 1,1586 · 10 ⁻²	0,50000000000055 0,50000000000055 0,4999999996724 0,50000000041133 0,49999999708066	200127,155999630 200127,190742224 200127,194219809 200127,1945169079 200127,194715347 8x ₃ / ₃	10 ³ 10 ⁴ 10 ² 10 ⁶ 10 ⁷	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033	100,000409292656 100,000409408544 100,000409420158 100,000409421342 100,000409423363 01 _T 1,1639 - 10 ⁻²	0,50000000000055 0,50000000000055 0,49999999946724 0,50000000041133 0,49999999708066	1000679,56053261 1000679,59529404 1000679,59877786 1000679,59913297 1000679,59971782 8x ₀ 3.4913+10 ²
10 ⁴ 10 ² 10 ⁶ 10 ⁷	2,771A6532579354 2,77236503944528 2,77245505647284 2,77246407688722 2,77246734040796 80; 8,9985 8,7524 · 10 ⁻²	100,000409292729 100,000409408616 100,000409420216 100,000409421380 100,000409422016 6059 1,1586+10 ⁻⁸ 1,0812-10 ⁻⁵	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 5m _N	200127,155999630 200127,190742224 200127,194219809 200127,194569079 200127,194715347 823) 3,4742-10 ² 3,2414	10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 80, 9,0100 8,7431 · 10 ⁻²	100,000409292656 100,000409408544 100,000409420158 100,000409421342 100,000409423363 00 ₇ 1,1639 - 10 ⁻³ 1,0812 - 10 ⁻⁵	0,50000000000055 0,50000000000055 0,4999999994724 0,500000000041133 0,49999999708066 8m _R	1000679,56053261 1000679,59529404 1000679,59913297 1000679,59971782 827) 3,4913+10 ⁻³ 3,2431 3,4539+10 ⁻³
10 ⁴ 10 ² 10 ⁶ 10 ⁷ 10 ² 10 ³	2,771A6532579354 2,77236503944528 2,77245505647284 2,77246407688722 2,77246734040796 80; 8,9985 8,7524 · 10 ⁻² 8,9748 · 10 ⁻²	100,000409292729 100,000409408616 100,000409420216 100,000409421380 100,000409422016 0072 1,1586 · 10 ⁻³ 1,0812 · 10 ⁻⁵ 1,1515 · 10 ⁻⁶	0,50000000000055 0,5000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴	200127,155999630 200127,190742224 200127,194219809 200127,194569079 200127,194715347 8x/y 3.4742 - 10 ² 3,2414 3,4521 - 10 ⁻¹	10 ³ 10 ⁴ 10 ² 10 ⁶ 10 ⁷	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 60°, 9,0100 8,7431 · 10 ⁻² 8,9653 · 10 ⁻³	100,000409292656 100,000409408544 100,000409420158 100,000409421342 100,000409423363 617 1,1639 - 10 ⁻⁸ 1,0812 - 10 ⁻⁵ 1,1515 - 10 ⁻⁶	0,50000000000055 0,50000000000055 0,49999999996724 0,50000000041133 0,49999999708066 5m _H 0 5,4956E+10 ⁻¹⁴	1000679,56053261 1000679,59529404 1000679,59913297 1000679,59971783 527, 3,4913+10* 3,2431 3,4539+10* 3,4761+10*
10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ² 10 ³ 10 ⁴	2,771A6532579354 2,77236503944528 2,77245505647284 2,77246407688722 2,77246734040796 8,9985 8,7524 · 10 ⁻² 8,9748 · 10 ⁻² 8,9971 · 10 ⁻⁴	100,000409292729 100,000409408616 100,000409420216 100,000409421380 100,000409422016 OF 1,1586 · 10 ⁻³ 1,0812 · 10 ⁻⁵ 1,1515 · 10 ⁻⁶ 1,1589 · 10 ⁻⁷	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 6m _N 0 5,4956 · 10 ⁻¹⁴	200127,155999630 200127,190742224 200127,194219809 200127,194569079 200127,194715347 627) 3,4742 - 10 ² 3,2414 3,4521 - 10 ⁻¹ 3,4743 - 10 ⁻²	10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ³ 10 ³ 10 ⁴	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 607 9,0100 8,7431 · 10 ⁻² 8,9653 · 10 ⁻³ 8,9876 · 10 ⁻⁴	100,000409292656 100,000409408544 100,000409420158 100,000409421342 100,000409423363 60°, 1,1639 - 10 ⁻³ 1,0812 - 10 ⁻⁵ 1,1515 - 10 ⁻⁶ 1,1589 - 10 ⁻⁷	0,50000000000055 0,50000000000055 0,49999999996724 0,50000000041133 0,49999999708066 6m _N 0 5,4956E+10 ⁻¹⁴	1000679,56053261 1000679,59529404 1000679,59913297 1000679,59971783 527 3,4913 - 101 3,2431 3,4539 - 101 3,4838 - 101
10 ⁴ 10 ² 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵	2,771,465325,79354 2,77236503944528 2,77246505647284 2,77246734040796 8,9985 8,7524 · 10 ⁻² 8,9748 · 10 ⁻³ 8,9971 · 10 ⁻⁴ 9,0017 · 10 ⁻⁵	100,000409292729 100,000409408616 100,000409420216 100,000409421380 100,000409422016 OT; 1,1586 · 10 ⁻² 1,0812 · 10 ⁻³ 1,1515 · 10 ⁻⁶ 1,1589 · 10 ⁻⁷ 1,1600 · 10 ⁻⁸	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹⁴	200127,155999630 200127,190742224 200127,194219809 200127,194569079 200127,194715347 524) 3,4742 - 10 ² 3,2414 3,4521 - 10 ⁻¹ 3,4743 - 10 ⁻² 3,4776 - 10 ⁻⁴	10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ³ 10 ³ 10 ⁴ 10 ¹	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 607 9,0100 8,7431 · 10 ⁻² 8,9653 · 10 ⁻³ 8,9876 · 10 ⁻⁴ 9,0014 · 10 ⁻⁵	100,000409292656 100,000409408544 100,000409420158 100,000409423363 607 1,1639 - 10 ⁻³ 1,0812 - 10 ⁻³ 1,1515 - 10 ⁻⁶ 1,1589 - 10 ⁻⁷ 1,1614 - 10 ⁻⁸	0,50000000000055 0,5000000000055 0,4999999996724 0,50000000041133 0,49999999708066 6m _R 0 5,4956E+10 ⁻¹⁴ 0 -3,3309+10 ⁻¹¹	1000679,56053261 1000679,59529404 1000679,59913297 1000679,59971782 527 3,4913 - 10* 3,4539 - 10* 3,4539 - 10* 3,4538 - 10* 3,4538 - 10* 3,4538 - 10*
10 ⁴ 10 ² 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	2,77146532579354 2,77236503944528 2,77246505647284 2,7724673040796 307 8,9985 8,7524 · 10 ⁻² 8,9748 · 10 ⁻² 8,9748 · 10 ⁻² 8,9747 · 10 ⁻⁴ 9,0017 · 10 ⁻⁵ 9,0204 · 10 ⁻⁸	100,000409292729 100,000409408515 100,000409420215 100,000409422016 07; 1.1586 · 10 ⁻² 1,0812 · 10 ⁻⁵ 1,1515 · 10 ⁻⁶ 1,1589 · 10 ⁻⁷ 1,1600 · 10 ⁻⁸	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,15599630 200127,190742224 200127,194219809 200127,194569079 200127,194715347 5241 3,4742 - 10 ² 3,2414 3,4521 - 10 ⁻¹ 3,4743 - 10 ⁻² 3,4776 - 10 ⁻¹ 3,4927 - 10 ⁻⁴	10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 60°, 9,0100 8,7431·10°2 8,9653·10°3 8,9653·10°4 9,0014·10°3 9,0857·10°4	100,000409292656 100,000409408344 100,000409420158 100,000409423363 61°, 1,1639 - 10° 3 1,0812 - 10° 3 1,1515 - 10° 6 1,1589 - 10° 3 1,1614 - 10° 8 1,1840 - 10° 9	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,56053261 1000679,59529404 1000679,59913297 1000679,59971782 527 3,4913 - 10* 3,4539 - 10* 3,4539 - 10* 3,4538 - 10* 3,4538 - 10* 3,4538 - 10*
10 ⁴ 10 ² 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	2,771A6532579354 2,77236503944528 2,77245505647284 2,7724673040796 60° 8,9985 8,7524 · 10° 8,9971 · 10° 9,0017 · 10° 9,0024 · 10° 3,2635 · 10°	100,000409292729 100,000409408616 100,000409420216 100,000409422016 0fg 1,1586 · 10 · 3 1,0812 · 10 · 5 1,1589 · 10 · 7 1,1589 · 10 · 7 1,1600 · 10 · 8 1,1640 · 10 · 9 6,3601 · 10 · 9	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,15599630 200127,190742224 200127,194219809 200127,194715347 6xg 3,4742 - 10 ² 3,2414 3,4521 - 10 ⁻¹ 3,4743 - 10 ⁻² 3,4776 - 10 ⁻⁴ 3,4927 - 10 ⁻⁴ 1,4627 - 10 ⁻⁴	10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 60° 9,0100 8,7431 · 10 ⁻² 8,9653 · 10 ⁻³ 8,9876 · 10 ⁻⁴ 9,0014 · 10 ⁻⁵ 9,0857 · 10 ⁻⁴ 1,2600 · 10 ⁻¹	100,000409292656 100,000409408544 100,000409420158 100,000409423363 Ofp 1,1639 - 10 ⁻³ 1,0512 - 10 ⁻⁵ 1,1519 - 10 ⁻³ 1,1544 - 10 ⁻³ 1,1840 - 10 ⁻³ 2,0210 - 10 ⁻⁹ 1,1639 - 10 ⁻¹¹	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,56053261 1000679,59529404 1000679,59913297 1000679,59971782 5X/9 3,4913 - 10* 3,2431 3,4539 - 10* 3,4761 - 10* 3,4838 - 10* 5,8485 - 10*
10 ⁴ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁶	2,771A6532579354 2,77236503944528 2,77245505647284 2,77246730040796 307 8,9985 8,7524 · 10 · 2 8,9971 · 10 · 4 9,0017 · 10 · 3 9,0024 · 10 · 3 3,2635 · 10 · 4 8,9985 · 10 · 8	100,000409292729 100,000409408616 100,000409420216 100,000409422016 0fg 1,1586 · 10 · 3 1,0812 · 10 · 5 1,1589 · 10 · 7 1,1589 · 10 · 7 1,1600 · 10 · 8 6,3601 · 10 · 10 1,1582 · 10 · 11	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,155999630 200127,190742224 200127,194219809 200127,194715347 6xy 3,4742 - 10 ⁻¹ 3,4743 - 10 ⁻² 3,4776 - 10 ⁻⁴ 3,4776 - 10 ⁻⁴ 3,4927 - 10 ⁻⁴ 1,4627 - 10 ⁻⁴ 3,4742 - 10 ⁻⁶	10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 60; 9,0100 8,7431 · 10 - 2 8,9653 · 10 - 4 9,0014 · 10 - 1 9,00857 · 10 - 4 9,00857 · 10 - 4 9,00857 · 10 - 4 9,00857 · 10 - 4 9,00857 · 10 - 4 9,00857 · 10 - 4 9,00857 · 10 - 4 9,00857 · 10 - 4 9,00857 · 10 - 4	100,000409292656 100,000409408544 100,000409420158 100,000409423363 Ofp 1,1639 - 10 ⁻³ 1,0512 - 10 ⁻⁵ 1,1519 - 10 ⁻³ 1,1544 - 10 ⁻³ 1,1840 - 10 ⁻³ 2,0210 - 10 ⁻⁹ 1,1639 - 10 ⁻¹¹	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,56053261 1000679,59529404 1000679,59913297 1000679,59971782 5272 3,4913 - 10** 3,4539 - 10** 3,4761 - 10** 3,4838 - 10** 5,8485 - 10** 5,8485 - 10**
10 ⁴ 10 ⁵ 10 ⁷ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	2,771A6532579354 2,77236503944528 2,77246505647284 2,77246736040796 809 8,9985 8,7524 10 2 8,9971 10 4 9,0017 10 1 9,0024 10 1 3,2635 10 4 8,9985 10 1 8,9985 10 1 8,9985 10 1	100,000409292729 100,000409408616 100,000409420216 100,000409422016 607 1,1586 · 10 · 3 1,0812 · 10 · 5 1,1589 · 10 · 3 1,1640 · 10 · 9 1,1582 · 10 · 11 1,1653 · 10 · 12 1,1653 · 10 · 12	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,155999630 200127,190742224 200127,194219809 200127,194715347	10 ³ 10 ⁴ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	2,76850369436397 2,76940245165497 2,76940245165492 2,76950155149825 2,76951415107033 60°, 9,0100 8,7431·10° 8,9653·10° 8,9876·10° 9,0014·10° 9,0014·10° 1,2600·10° 9,0100·10° 9,0100·10° 9,0100·10° 9,0100·10°	100,000409292656 100,000409408544 100,000409420158 100,000409423363 017 1,1659-10 ⁻³ 1,0612-10 ⁻⁵ 1,1515-10 ⁻⁶ 1,1589-10 ⁻³ 1,1644-10 ⁻⁶ 1,1840-10 ⁻⁶ 2,0210-10 ⁻⁹ 1,1639-10 ⁻¹¹ 1,1653-10 ⁻¹¹	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,56053261 1000679,59529404 1000679,5991329 1000679,5997178 32,431 3,4539 10 3,4539 10 3,4538 10 3,4531 10 3,4531 10 5,8455 10 3,4913 10 3,4913 10 3,4913 10 3,4913 10 3,4913 10 3,4913 10
10 ⁴ 10 ³ 10 ⁴ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ⁷ 10 ⁸ 10 ⁸	2,771A6532579354 2,77236503944528 2,77245505647284 2,77246734040796 8,9985 8,7524 · 10 -2 8,9987 8,9971 · 10 -4 9,0017 · 10 -3 9,0204 · 10 -9 3,2635 · 10 -4 8,9985 · 10 -8 8,9985 · 10 -8	100,000409292729 100,000409408516 100,000409420216 100,000409422016 605 1,1586 · 10 · 3 1,0812 · 10 · 3 1,1589 · 10 · 3 1,1640 · 10 · 3 1,1582 · 10 · 1 1,1682 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1689 · 10 · 8	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,155999630 200127,190742224 200127,194219809 200127,194715347 823) 3,4742-10 ² 3,2414 3,4521-10 ⁻¹ 3,4776-10 ⁻¹ 3,4927-10 ⁻⁴ 3,4742-10 ⁻² 3,4774-10 ⁻² 3,4774-10 ⁻³ 3,4774-10 ⁻³ 3,4774-10 ⁻³ 3,4774-10 ⁻⁶ 3,4774-10 ⁻⁶ 3,4774-10 ⁻⁷ 3,4750-10 ⁻⁸	10 ³ 10 ⁴ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 80; 9,0100 8,7431:10 ⁻² 8,9653:10 ⁻¹ 8,9876:10 ⁻¹ 9,0014:10 ⁻¹ 9,0857:10 ⁻¹ 1,2600:10 ⁻¹ 9,0100:10 ⁻² 9,0100:10 ⁻¹	100,000409292656 100,000409408544 100,000409420158 100,000409423363 007 1,5639 - 10 - 3 1,0612 - 10 - 5 1,1515 - 10 - 6 1,1589 - 10 - 7 1,1644 - 10 - 7 1,1649 - 10 - 10 1,1639 - 10 - 11 1,1653 - 10 - 12 1,1559 - 10 - 13	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,56053261 1000679,59529404 1000679,5991329 1000679,5997178 32,431 3,4539 10 3,4539 10 3,4538 10 3,4531 10 3,4531 10 5,8455 10 3,4913 10 3,4913 10 3,4913 10 3,4913 10 3,4913 10 3,4913 10
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10 ⁴ 10 ² 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³	2,771A6532579354 2,77236503944528 2,77245505647284 2,7724673040796 607 8,9985 8,7524 · 10 ⁻² 8,9748 · 10 ⁻³ 8,9911 · 10 ⁻⁴ 9,0017 · 10 ⁻⁶ 9,0024 · 10 ⁻⁶ 3,2635 · 10 ⁻⁶ 8,9985 · 10 ⁻⁶ 8,9985 · 10 ⁻⁶ 8,9985 · 10 ⁻¹¹ 8,9985 · 10 ⁻¹² 8,9985 · 10 ⁻¹¹ 8,9985 · 10 ⁻¹¹	100,000409292729 100,000409408516 100,000409420216 100,000409422016 605 1,1586 · 10 · 3 1,0812 · 10 · 3 1,1589 · 10 · 3 1,1640 · 10 · 3 1,1582 · 10 · 1 1,1682 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1683 · 10 · 1 1,1689 · 10 · 8	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,15599630 200127,190742224 200127,194219809 200127,194715347 626) 3,4742 - 10 ² 3,2414 3,4521 - 10 ⁻³ 3,4776 - 10 ⁻³ 3,4776 - 10 ⁻⁴ 3,4772 - 10 ⁻⁶ 3,4741 - 10 ⁻⁷ 3,4741 - 10 ⁻⁷ 3,4741 - 10 ⁻⁷ 3,4751 - 10 ⁻⁸ 3,4741 - 10 ⁻⁷ 3,4751 - 10 ⁻⁸ 3,4741 - 10 ⁻⁷ 3,4751 - 10 ⁻⁸ 3,4741 - 10 ⁻⁹ 3,4634 - 10 ⁻⁹ 3,4925 - 10 ⁻¹⁰	10 ³ 10 ⁴ 10 ⁵ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁸ 10 ⁷ 10 ⁸ 10 ⁸ 10 ¹⁰ 10 ⁸ 10 ¹¹ 10 ¹² 10 ¹³	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 607 9,0100 8,7431 · 10 -2 8,9653 · 10 -4 9,014 · 10 -3 9,0857 · 10 -4 1,2600 · 10 -4 9,0100 · 10 -8 9,0100 · 10 -1 9,0100 · 10 -1 9,0100 · 10 -1 9,0100 · 10 -1 9,0100 · 10 -1 9,0100 · 10 -1	100,000409292656 100,000409408344 100,000409420158 100,000409423363 6/T _p 1,1639 · 10 ⁻³ 1,0812 · 10 ⁻⁵ 1,1515 · 10 ⁻⁶ 1,1589 · 10 ⁻⁷ 1,1614 · 10 ⁻⁸ 2,0210 · 10 ⁻⁹ 2,0210 · 10 ⁻⁹ 1,1639 · 10 ⁻¹¹ 1,1653 · 10 ⁻¹² 1,1369 · 10 ⁻¹³ 0 0	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,5605326 1000679,5952940- 1000679,5991329 1000679,5997178 527, 3,4913 - 10 3,243 3,4539 - 10 3,4838 - 10 3,4838 - 10 5,8485 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4925 - 10
10 ⁴ 10 ² 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴ 10 ¹⁵	2,771A6532579354 2,77236503944528 2,77245505647284 2,77246730040796 307 8,9985 8,7524 · 10 · 2 8,9971 · 10 · 4 9,0017 · 10 · 3 2,635 · 10 · 4 8,9985 · 10 · 10 8,9985 · 10 · 10 8,9985 · 10 · 10 8,9985 · 10 · 10 8,9985 · 10 · 10 8,9985 · 10 · 11	100,000409292729 100,000409408616 100,000409420216 100,000409422016 0Fp 1,1586 · 10 · 3 1,0812 · 10 · 5 1,1589 · 10 · 7 1,1600 · 10 · 8 1,1640 · 10 · 9 1,1682 · 10 · 12 1,1633 · 10 · 12 1,1369 · 10 · 8 0 0 0	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,15599630 200127,190742224 200127,194219809 200127,194715347 6xg) 3,4742 + 10 ² 3,2414 3,4521 + 10 ⁻¹ 3,4776 - 10 ⁻¹ 3,4776 - 10 ⁻¹ 3,4772 + 10 ⁻² 3,4741 + 10 ⁻⁷ 3,4741 + 10 ⁻⁷ 3,4750 + 10 ⁻⁸ 3,4741 + 10 ⁻⁷ 3,4750 + 10 ⁻⁸ 3,4725 + 10 ⁻⁸ 3,4925 + 10 ⁻¹⁰ 0	10 ² 10 ⁴ 10 ⁵ 10 ⁷ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹⁰ 10 ¹⁰ 10 ¹⁰ 10 ¹⁰ 10 ¹⁰	2,76850369436397 2,76940245165497 2,76940245165492 2,76950155149825 2,76951415107033 60° 9,0100 8,7431 · 10 ⁻¹ 8,9653 · 10 ⁻¹ 9,005 · 10 ⁻¹ 9,0100 · 10 ⁻¹ 9,0100 · 10 ⁻¹ 9,0100 · 10 ⁻¹ 9,0101 · 10 ⁻¹	100,000409292656 100,000409408344 100,000409420158 100,000409423363 6/Tp 1,1639 · 10 · 3 1,1515 · 10 · 5 1,1589 · 10 · 3 1,1639 · 10 · 10 1,1639 · 10 · 11 1,1633 · 10 · 12 1,1369 · 10 · 13 0 0 0 0	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,56053261 1000679,59529404 1000679,5991329 1000679,5997178 32,431 3,4539 10 3,4539 10 3,4538 10 3,4531 10 3,4531 10 5,8455 10 3,4913 10 3,4913 10 3,4913 10 3,4913 10 3,4913 10 3,4913 10
10 ⁴ 10 ² 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁷ 10 ⁸ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴	2,771A6532579354 2,77236503944528 2,77245505647284 2,77246734040796 607 8,9985 8,7524 · 10 - 2 8,9971 · 10 - 4 9,0017 · 10 - 3 2,635 · 10 - 4 8,9985 · 10 - 4 8,9985 · 10 - 4 8,9985 · 10 - 14 8,9985 · 10 - 14 8,9972 · 10 - 14 8,9972 · 10 - 14 8,8818 · 10 - 15 8,8818 · 10 - 15 8,8818 · 10 - 15	100,000409292729 100,000409408616 100,000409420216 100,000409422016 0fg 1,1586 · 10 · 3 1,1585 · 10 · 3 1,1585 · 10 · 3 1,1585 · 10 · 3 1,1589 · 10 · 3 1,1640 · 10 · 30 1,1582 · 10 · 11 1,1633 · 10 · 12 1,1369 · 10 · 13 0 0 0 0 0	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,15599630 200127,190742224 200127,194219809 200127,194715347 6xg 3,4742 - 10 ² 3,4743 - 10 ⁻² 3,4743 - 10 ⁻² 3,4776 - 10 ⁻³ 3,4776 - 10 ⁻³ 3,4776 - 10 ⁻³ 3,4770 - 10 ⁻⁴ 3,4741 - 10 ⁻⁵ 3,4741 - 10 ⁻⁶ 3,4741 - 10 ⁻⁶ 3,4742 - 10 ⁻⁶ 3,4741 - 10 ⁻⁶ 3,4751 - 10 ⁻⁸ 3,4925 - 10 ⁻¹⁰ 0 0	10 ³ 10 ⁴ 10 ⁵ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁸ 10 ⁷ 10 ⁸ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹³ 10 ¹³	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 60° 9,0100 8,7431·10 ⁻² 8,9653·10 ⁻³ 9,0014·10 ⁻³ 9,0057·10 ⁻³ 1,2600·10 ⁻³ 9,0100·10 ⁻³ 9,0100·10 ⁻³ 9,0100·10 ⁻³ 9,0100·10 ⁻¹⁴ 9,0101·10 ⁻¹⁴ 9,0101·10 ⁻¹⁴ 9,0101·10 ⁻¹⁴ 9,0101·10 ⁻¹⁴ 9,0101·10 ⁻¹⁴ 9,0101·10 ⁻¹⁴ 9,0106·10 ⁻¹⁴ 9,0150·10 ⁻¹⁴ 8,8818·10 ⁻¹⁵	100,000409292656 100,000409408544 100,000409420158 100,000409423363 01 _T 1,1639·10 ⁻³ 1,0812·10 ⁻³ 1,1559·10 ⁻³ 1,1589·10 ⁻³ 1,1644·10 ⁻³⁸ 2,0210·10 ⁻⁹ 2,0210·10 ⁻⁹ 1,1639·10 ⁻¹¹ 1,1639·10 ⁻¹² 1,1369·10 ⁻¹³ 0 0 0	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,5605326 1000679,5952940- 1000679,5991329 1000679,5997178, 3,4913 - 10 3,243 3,4539 - 10 3,4761 - 10 3,4838 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4925 - 10 10 10 10 10 10 10 10 10 10
10 ⁴ 10 ² 10 ⁶ 10 ⁷ 10 ⁷ 10 ³ 10 ⁴ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹³ 10 ¹³ 10 ¹⁴	2,771A6532579354 2,77236503944528 2,77245505647284 2,7724673040796 607 8,9985 8,7524 · 10 ⁻² 8,9948 · 10 ⁻³ 8,9911 · 10 ⁻⁴ 9,0017 · 10 ⁻³ 9,0204 · 10 ⁻³ 3,2635 · 10 ⁻⁴ 8,9985 · 10 ⁻³ 8,9985 · 10 ⁻³ 8,9985 · 10 ⁻³ 8,9985 · 10 ⁻¹	100,000409292729 100,000409408616 100,000409420216 100,000409422016 0fg 1,1586 · 10 · 3 1,1515 · 10 · 6 1,1589 · 10 · 7 1,1600 · 10 · 80 1,1582 · 10 · 11 1,1633 · 10 · 12 1,1369 · 10 · 83 0 0 0 0 0 0 0 0	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,15599630 200127,190742224 200127,194219809 200127,194715347 6xg 3,4742 - 10 ² 3,4743 - 10 ⁻² 3,4743 - 10 ⁻² 3,4776 - 10 ⁻⁴ 3,4797 - 10 ⁻⁴ 3,4741 - 10 ⁻⁷ 3,4750 - 10 ⁻⁸ 3,4741 - 10 ⁻⁷ 3,4750 - 10 ⁻⁸ 3,4925 - 10 ⁻¹⁰ 0,0 0	10 ³ 10 ⁴ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁸ 10 ⁷ 10 ⁸ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴ 10 ¹⁵ 10 ¹⁶	2,76850369436397 2,76940245165497 2,76949246576442 2,76950155149825 2,76951415107033 60°// 8,7431 · 10 · 10 8,9653 · 10 · 10 9,0057 · 10 · 10 9,0100 · 10 · 10 9,0100 · 10 · 10 9,0100 · 10 · 10 9,0100 · 10 · 10 9,0100 · 10 · 10 9,0100 · 10 · 10 9,0100 · 10 · 10 9,0100 · 10 · 11	100,000409292656 100,000409408344 100,000409420158 100,000409423363 6/T 1,1659 · 10 · 3 1,1555 · 10 · 5 1,1559 · 10 · 7 1,1644 · 10 · 9 2,0210 · 10 · 9 1,1639 · 10 · 11 1,1639 · 10 · 12 1,1369 · 10 · 13 0 0 0 0 0 0 0 0	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,5605326 1000679,5952940 1000679,5991329 1000679,5997178 527 3,4913 - 10 3,243 3,4539 - 10 3,4761 - 10 3,4838 - 10 3,5511 - 10 3,4913 - 10 3,4913 - 10 3,4925 - 10 3,4925 - 10
10 ⁴ 10 ⁵ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁸ 10 ⁸ 10 ⁸ 10 ¹⁰ 10 ¹⁰ 10 ¹⁰ 10 ¹¹⁰	2,771A6532579354 2,77236503944528 2,77245505647284 2,77246730040796 307 8,9985 8,7524 · 10 · 2 8,9971 · 10 · 4 9,0017 · 10 · 3 3,2635 · 10 · 4 8,9985 · 10 · 10 8,9985 · 10 · 10 8,9985 · 10 · 10 8,9985 · 10 · 11 8,9985 · 10 · 11 8,9985 · 10 · 11 8,9985 · 10 · 11 8,9985 · 10 · 11 8,9985 · 10 · 11 8,9985 · 10 · 11 8,9985 · 10 · 11 8,9985 · 10 · 11 8,9985 · 10 · 11 8,9986 · 10 · 11	100,000409292729 100,000409408616 100,000409420216 100,000409422016 0fp 1,1586 · 10 · 3 1,1585 · 10 · 3 1,1585 · 10 · 3 1,1589 · 10 · 3 1,1640 · 10 · 30 1,1582 · 10 · 12 1,1653 · 10 · 12 1,1369 · 10 · 13 0 0 0 0 1 1 1 1 100,000409421496	0,50000000000055 0,50000000000055 0,4999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956 · 10 ⁻¹⁴ 0 -3,3309 · 10 ⁻¹¹ 4,4409 · 10 ⁻¹¹	200127,15599630 200127,190742224 200127,194219809 200127,194715347 5xy 3,4742 - 10 ² 3,4743 - 10 ⁻² 3,4743 - 10 ⁻² 3,4742 - 10 ⁻⁴ 1,4627 - 10 ⁻⁴ 3,4750 - 10 ⁻⁴ 3,4925 - 10 ⁻¹⁶ 3,4925 - 10 ⁻¹⁶ 0 0 0 0 2xe 200127,194603821	10 ² 10 ⁴ 10 ⁵ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁸ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴ 10 ¹⁵ 10 ¹⁶ 10 ¹⁷ 10 ¹⁸ 10 ¹⁷ 10 ¹⁸ 10 ¹⁸ 10 ¹⁸ 10 ¹⁸	2,76850369436397 2,76940245165497 2,76940245165497 2,76950155149825 2,76951415107033 607 8,9610 8,7431 · 10 - 2 8,9675 · 10 - 4 9,0014 · 10 - 5 9,0100 · 10 - 3 9,0100 · 10 - 3 9,0100 · 10 - 14 9,0100 · 10 - 14 9,0101 · 10 - 14 9,0101 · 10 - 14 9,0101 · 10 - 14 9,0101 · 10 - 14 9,0101 · 10 - 14 9,0101 · 10 - 14 9,0101 · 10 - 14 9,0101 · 10 - 14 9,0101 · 10 - 14 9,0101 · 10 - 14 9,0150 · 10 - 14 8,8818 · 10 - 13 0 127	100,000409292656 100,000409408544 100,000409420158 100,000409423363 0fg 1,1639 - 10 - 3 1,1515 - 10 - 6 1,1589 - 10 - 7 1,1614 - 10 - 9 1,1639 - 10 - 11 1,1639 - 10 - 12 1,1639 - 10 - 12 1,1369 - 10 - 13 0 0 0 0 0 0 1): 100,000409421458	0,50000000000055 0,50000000000055 0,49999999996724 0,500000000041133 0,49999999708066 8m _N 0 5,4956E-10 ⁻¹⁴ 0 -3,3309-10 ⁻¹³ 4,4409-10 ⁻¹³	1000679,5991678 1000679,599129 1000679,599129 1000679,5997178 52, 3,4913 - 10 3,243 5,4539 - 10 3,4761 - 10 3,4838 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4913 - 10 3,4925 - 10
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Tab: C.2: Calculation of relativistic rocket velocity according to program Type: "A1", $v_0'=-4$ km/s, $\Delta m_0=0.5\%$, $t_0=100$ s a) $v_0=0$, b) $v_0=369$ km/s, c) $v_0=2000$ km/s, d) $v_0=10000$ km/s

N	Py.	t _r	m_N	X _N :	N	Py	ž _r .	m_N	Xw
10	7,84085772014717	1000,00912888441	0,10000000000000000	2736,750700612000	10	7,84084554146182	1000,00912888434	0,10000000000000000	371737,0322956670
103	9,05101119073233	1000,00983714046	0,0999999999999		103		1000,00983714038		371949,3587899240
101	9,19416709875657	1000.00991970498	0,09999999999989	2973,828794295530	103	9,19415274738003	1000,00991970490	0,09999999999989	371974,1105690590
10+		1000,00992810957	0,09999999999856		10*		1000,00992810949	III I MARK BY CONTRACT FOR	371976,6301589470
102		1000,00992895150	0,09999999998368	na Produce y and Allian Analiana and Analiana Palanesi (are	102	9,21016399816938	1000,00992895148	0,09999999998368	
106	Carried Control Control	1000,00992904517	0,100000000009585		106		1000,00992903570	0,100000000009585	STATE OF THE PARTY OF THE PARTY.
107	A REPORT OF THE PARTY OF THE PA	1000,00992885138	0,099999999922464		107		1000,00992904906	0,099999999922464	
.03	Delivery of the Party of the Pa	δt_T	8m _n	δx_{ij}	- 22	Section of the last of the las	őf _T	δm _H	δx_N
	δυ _τ	DIT.	3074	U.C.N		δυ _τ	DIT.	JULY .	U.A.N
x	1,4507 - 102	8,6118 - 10-2		2,5109 - 104	\bar{x}	1,4507 - 102	8,3757 - 10-2		2,5111 - 104
103	1,2102	7,0826 - 10	-8,0491 - 10 ⁻³⁶	2,1233 - 102	103	1,2102	7,0826 - 10	-8,0491 - 10 ⁻³⁶	2,1233 - 102
103	1,4316 - 10-1	8,2565 - 10 -3	-1,0700 - 10 ⁻¹⁴	2,4752 - 101	103	1,4316 - 10-1	8,2565 - 10 -3	-1,0700 - 10 ⁻¹⁴	2,4752 - 101
104	1,4554 - 10"2	8,4046 - 10 0	-1,3300 - 10 ⁻¹³	2,5196	104	1,4554 - 10-2	8,4046 - 10 - 0	-1,3300 - 10 ⁻¹³	2,5196
101	1,4577 - 10 ⁻³	8,4193 - 10-7	-1,4880 · 10 ⁻¹²	2,5241 · 10 ⁻¹	101	1,4577 - 10 ⁻³	8,4199 - 10-7	-1,4880 · 10 ⁻¹²	2,5242 10-1
10°	1,4580 - 10-4	9,3670 - 10-6	1,1217 - 10-11	2,5246 - 10-2	10°	1,4582 - 10**	8,4220 · 10 ⁻⁶	1,1217 - 10-11	2,5256 - 10-2
107	1,4586 · 10 ⁻⁵	-1,9379 - 10 ⁻⁷	-8,7121 - 10 ⁻¹¹	2,5251 - 10-3	107	1,4923 · 10-5	1,3360 - 10-8	-8,7121 - 10 ⁻¹¹	2,6943 · 10-3
102	1,4507 · 10 ⁻⁸	8,6118 - 10-10		2,5109 · 10 ⁻⁴	102	1,4507 - 10"	8,3753 - 10-10		2,5111 - 10-4
104	1,4507 · 10-7	8,6175 - 10-11		2,5109 - 10-5	104	1,4507 - 10-7	8,3787 - 10-11		2,5111 - 10-5
1010	1,4507 · 10-8	8,6402 - 10-13		2,5109 - 10-4	10.10	1,4507 · 10-8	8,4128 - 10-13		2,5111 · 10-*
1011	1,4507 - 10-9	9,0949 - 10-13		2,5109 - 10-7	1011	1,4507 - 10-9	0		2,5111 - 10-7
10^{12}	1,4507 - 10-10	0		2,5109 · 10 ⁻⁸	10^{12}	1,4507 - 10-10	0		2,5088 · 10 ⁻⁸
10^{13}	1,4506 - 10-11	0		2,5107 - 10-9	10^{13}	1,4508 - 10-11	0		2,5029 - 10-9
1018	1,4513 - 10-12	0		2,5102 - 10-10	1018	1,4513 - 10-13	0		0
1015	1,4566 - 10-13	0		2,5011 - 10-11	10^{15}	1,4566 - 10-13	0		0
1010	1,4211-10-14	0		0	10^{10}	1,4211-10-14	0		0
History	1/7	I _F		χ_{K}		1/7	T _F		Z _N
107	STATE OF THE PARTY			ACCOUNT OF THE PARTY OF THE PAR	107	STATE OF THE PARTY			Secretary Control of the Party
anna the same	9,21033867546060			2976,628553565180	107				371976,9103422510
108		1000,00992905464		2976,628804653010	108		1000,00992904491		371976,9105933640
10*		1000,00992905473		2976,628829761790	10*		1000,00992904500		371976,9106184750
1010		1000,00992905474		2976,628832272670	1010		1000,00992904501		371976,9106209860
10 ¹¹		1000,00992905474		2976,628832523760	1011		1000,00992904501		371976,9106212370
1012		1000,00992905474		2976,628832548870	1012		1000,00992904501		371976,9106212620
1013		1000,00992905474		2976,628832551380	1013		Company of the Control of the Contro		371976,9106212650
1014	9,21034028729940	Información con a tracalante		2976,628832551630	1014		1000,00992904501		371976,9106212650
1013		1000,00992905474	a)	2976,628832551650	1013	9,21032593884590		b)	371976,9106212650
1010	9,21034028729956	1000,00992905474		2976,628832551660	10 ¹⁶	9,21032593884591	1000,00992904501	,	371976,9106212650
N	Pz	t _T	m_N	X_N	N	Py.	t _r	m_N	X _W
2.00				10050	1000	10000			TO 55
10	7,84050712993712	1000,00912888406	0,1000000000000000	Management	10		1000,00912888264	MANAGEMENT OF THE PARTY OF THE	10008305,1716827
10		1000,00912888406 1000,00983714003	III III III III III III III III III II	2002781,31911852		7,83212547315452		0,1000000000000000	- Hombs
103	9,05060615444427	1000,00983714003	0,100000000000000 0,09999999999999	2002781,31911852 2002993,65017758	10	7,83212547315452 9,04092953464169	1000,00912888264 1000,00983713831	0,1000000000000000	10008305,1716827 10008518,6162407
	9,05060615444427 9,19375561457377		0,1000000000000000	2002781,31911852 2002993,65017758 2003018,40248872	10 10 ³	7,83212547315452 9,04092953464169 9,18392577772829	1000,00912888264 1000,00983713831	0,1000000000000000	10008306,1716827 10008518,6162407 10008543,3817823
10 ³ 10 ⁴	9,05060615444427 9,19375561457377 9,20830849818162	1000,00983714003 1000,00991970454 1000,00992810913	0,100000000000000 0,09999999999989 0,09999999999	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354	10 10 ³ 10 ³	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933	1000,00912888264 1000,00983713831 1000,00991970277	0,100000000000000 0,09999999999999 0,099999999	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777
10 ³ 10 ⁴ 10 ²	9,05060515444427 9,19375561457377 9,20830849818162 9,20976618582245	1000,00983714003 1000,00991970454	0,100000000000000 0,09999999999999 0,099999999	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373	10 10 ³ 10 ⁴	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928923446	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738	0,100000000000000 0,09999999999999 0,099999999	10008305,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823
10 ³ 10 ³ 10 ⁴ 10 ² 10 ⁶	9,05060515444427 9,19375561457377 9,20830849818162 9,20976618582245 9,20991210652369	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992903552	0,10000000000000 0,09999999999989 0,0999999999856 0,0999999998868 0,10000000009585	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,19985815	10 10 ³ 10 ³ 10 ⁴ 10 ² 10 ⁶	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928923446 9,20006556392400	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992903452	0,100000000000000 0,09999999999989 0,09999999999	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763
10 ³ 10 ⁴ 10 ²	9,05060615444427 9,19375561457377 9,20830849818162 9,20976618582245 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992903552 1000,00992904651	0,10000000000000 0,0999999999989 0,0999999999856 0,0999999998368 0,10000000009585 0,099999999922464	2002781.31911852 2002993.65017758 2003018.40248872 2003020,92213354 2003021,17456373 2003021,19985815 2003021,20324950	10 10 ³ 10 ³ 10 ⁴	7,83212547315452 9,04097953464169 9,18392577772829 9,18846309125933 9,19991928923446 9,20006556392400 9,200068599787535	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992903452 1000,00992905726	0,10000000000000 0,0999999999989 0,0999999999856 0,0999999998368 0,10000000009585 0,09999999922464	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819
10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	9,05060515444427 9,19375561457377 9,20830849818162 9,20976618582245 9,20991210652369	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992903552	0,10000000000000 0,09999999999989 0,0999999999856 0,0999999998868 0,10000000009585	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,19985815	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928923446 9,20006556392400	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992903452	0,100000000000000 0,09999999999989 0,09999999999	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763
10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	9,05060515444427 9,19375561457377 9,20830849818162 9,20976618582245 9,20991210652369 9,20992848275819 809 1,4509+10 ²	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992903552 1000,00992504651 0fg 8,3796 · 10 ⁻²	0,10000000000000 0,09999999999989 0,0999999999856 0,0999999998868 0,100000000009585 0,09999999922464	2002781.31911852 2002993.65017758 2003018.40248872 2003020.92213354 2003021.17456373 2003021.19985815 2003021.20324950 öxyy 2,5122 · 10 ⁴	10 10 ³ 10 ⁴ 10 ² 10 ⁶ 10 ³	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928923446 9,20006556392400 9,20006899787535 609 1,4507 - 10 ²	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992903452 1000,00992905726 61 ₇ 8,3954+10 ⁻²	0,10000000000000 0,099999999989 0,099999999856 0,0999999998368 0,10000000009585 0,109999999922464	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 527/ 2,5182+10*
10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	9,05060615444427 9,19375561457377 9,20830849818162 9,20976618582245 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992903552 1000,00992904651	0,10000000000000000000,09999999999856 0,09999999999856 0,09999999998568 0,100000000099585 0,099999999922464 6m _N	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,19985815 2003021,20324950 8Xg	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928929446 9,20005556392400 9,20005899787535	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992903452 1000,00992905726 609 8,3954 - 10 ⁻² 7,0826 - 10 ⁻⁴	0,10000000000000 0,0999999999989 0,0999999999856 0,0999999998368 0,10000000009585 0,09999999922464	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 527/ 2,5182+10*
10 ³ 10 ⁴ 10 ⁴ 10 ⁶ 10 ⁷ 10 ⁷	9,05060515444427 9,19375561457377 9,20830849818162 9,20976618582245 9,20991210652369 9,20992848275819 809 1,4509+10 ²	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992903552 1000,00992504651 0fg 8,3796 · 10 ⁻²	0,10000000000000 0,09999999999989 0,0999999999856 0,0999999998868 0,100000000009585 0,09999999922464	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,19985815 2003021,20324950 822/ 2,5122 · 10 ⁴ 2,1233 · 10 ² 2,4752 · 10 ¹	10 10 ³ 10 ⁴ 10 ⁴ 10 ⁶ 10 ⁷ 10 ³	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928923446 9,20006556392400 9,20006899787535 609 1,4507 - 10 ²	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992903452 1000,00992905726 61 ₇ 8,3954+10 ⁻²	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 8277 2,5182-10 ² 2,1244+10 ² 2,4766-10 ¹
10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ³ 10 ³ 10 ⁴	9,05060515444427 9,19375561457377 9,20830849818162 9,20976618582245 9,20992848275819 80; 1,4509 - 10 ² 1,2101 1,4315 - 10 ⁻¹ 1,4553 - 10 ⁻²	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992903552 1000,00992904651 6E _T 8,3796 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2565 · 10 ⁻⁶ 8,4046 · 10 ⁻⁶	0,100000000000000000000,09999999999989 0,09999999999	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,19985815 2003021,20324950 8520 2,5122 · 10 ⁴ 2,1233 · 10 ² 2,4752 · 10 ¹ 2,5196	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ³ 10 ³ 10 ⁴	7,83212547315452 9,04097953464169 9,18392577772829 9,19846309125933 9,19991928923446 9,20006356392400 9,20008899787535 607 1,4507 · 10 ⁻² 1,2088 1,4507 · 10 ⁻¹ 1,4537 · 10 ⁻²	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992903452 1000,00992905726 60°; 8,3954 - 10 ⁻² 7,0826 - 10 ⁻⁴ 8,2564 - 10 ⁻⁹ 8,4046 - 10 ⁻⁹	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 857, 2,5182 - 10 ² 2,1244 + 10 ² 2,4766 - 10 ⁴
10 ³ 10 ⁴ 10 ⁴ 10 ⁶ 10 ⁷ 10 ⁷	9,05060615444427 9,19375561457377 9,20830849818162 9,20976618582245 9,20992848275819 809 1,4509-10 ² 1,2101 1,4315-10 ⁻¹	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992903552 1000,00992904651 6E ₇ 8,3796 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2565 · 10 ⁻⁸	0,10000000000000000000,09999999999989 0,09999999999	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,19985815 2003021,20324950 822/ 2,5122 · 10 ⁴ 2,1233 · 10 ² 2,4752 · 10 ¹	10 10 ³ 10 ⁴ 10 ⁴ 10 ⁶ 10 ⁷ 10 ³	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928923446 9,20006556392400 9,20008899787535 609 1,4507 + 10 ² 1,2088 1,4300 + 10 ⁻¹	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992903452 1000,00992905726 607 8,3954 - 10 ⁻² 7,0826 - 10 ⁻⁴ 8,2564 - 10 ⁻³	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 857, 2,5182 - 10 ² 2,1244 + 10 ² 2,4766 - 10 ⁴
10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819 	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992903651 001; 8,3796 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,4046 · 10 ⁻⁶ 8,4046 · 10 ⁻⁶ 8,4202 · 10 ⁻⁷ 8,4370 · 10 ⁻⁶	0,1000000000000000000000,09999999999999	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,19985815 2003021,20324950 527/ 2,5122 · 10 ⁴ 2,1233 · 10 ² 2,4752 · 10 ⁴ 2,5196 2,5243 · 10 ⁻² 2,5294 · 10 ⁻²	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	7,83212547315452 9,04097953464169 9,18392577772829 9,19846309125933 9,290065556392446 9,200068599787535 602 1,4507 · 10 ² 1,2088 1,4300 · 10 ⁻¹ 1,4567 · 10 ² 1,4562 · 10 ⁻² 1,4562 · 10 ⁻³	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992903452 1000,00992903452 1000,00992905726 617 8,3954 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2564 · 10 ⁻³ 8,4046 · 10 ⁻⁶ 8,4215 · 10 ⁻⁷ 8,4990 · 10 ⁻⁶	0,100000000000000000000000000000000000	10008306.1718827 10008518.6162407 10008543,3817823 10008546,1553823 10008546,1808763 10008546,1876819 857, 2,5182+10 ² 2,1244+10 ² 2,4766+10 ¹ 2,5210 2,5260+10 ⁻¹ 2,5494+10 ⁻²
10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819 607 1,4509 - 10 ² 1,4515 - 10 ⁻¹ 1,4553 - 10 ⁻² 1,4577 - 10 ⁻³ 1,4597 - 10 ⁻⁴ 1,6376 - 10 ⁻¹	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992903552 1000,00992904651 OT _p 8,3796 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2565 · 10 ⁻⁶ 8,4046 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶	0,100000000000000000000,099999999999856 0,09999999999856 0,10000000000585 0,10000000000585 0,099999999922464 6m _A -8,0491-10 ⁻¹⁶ -1,0700-10 ⁻¹⁴ -1,3300-10 ⁻¹³ -1,4880-10 ⁻¹⁴	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,20324950 829 2,5122 · 10 ⁴ 2,1233 · 10 ² 2,4752 · 10 ¹ 2,5196 2,5243 · 10 ⁻² 2,5294 · 10 ⁻² 3,3913 · 10 ⁻³	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁷ 10 ³ 10 ³ 10 ⁴ 10 ³	7,83212547315452 9,04097953464169 9,18392577772829 9,19846309125933 9,20008599392400 9,20008899787535 607 1,4507 - 10 ⁻² 1,208 1,4507 - 10 ⁻² 1,4537 - 10 ⁻² 1,4562 - 10 ⁻³	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992903452 1000,00992903452 1000,00992905726 617 8,3954 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2564 · 10 ⁻³ 8,4046 · 10 ⁻⁶ 8,4215 · 10 ⁻⁷ 8,4990 · 10 ⁻⁶	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 52,7 2,5182 + 10 ² 2,4766 + 10 ¹ 2,5200 2,5200 + 10 ⁻¹ 2,5494 + 10 ⁻² 6,8056 + 10 ⁻¹
10 ³ 10 ⁴ 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992809135 1000,00992903552 1000,00992904651 6T ₇ 8,3796 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2565 · 10 ⁻⁵ 8,4046 · 10 ⁻⁶ 8,4202 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶	0,1000000000000000000000,09999999999999	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,19985815 2003021,20324950 527/ 2,5122 · 10 ⁴ 2,1233 · 10 ² 2,4752 · 10 ⁴ 2,5196 2,5243 · 10 ⁻² 2,5294 · 10 ⁻²	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928929446 9,20008899787535 602 1,4507 · 10 ² 1,4507 · 10 ² 1,4562 · 10 ⁻³ 1,4567 · 10 ⁴ 2,3434 · 10 ⁻² 1,4507 · 10 ⁴	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992903452 1000,00992903452 1000,00992905726 617 8,3954 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2564 · 10 ⁻³ 8,4046 · 10 ⁻⁶ 8,4215 · 10 ⁻⁷ 8,4990 · 10 ⁻⁶	0,100000000000000000000000000000000000	10008306.1718827 10008518.6162407 10008543,3817823 10008546,1553823 10008546,1808763 10008546,1876819 857, 2,5182+10 ² 2,1244+10 ² 2,4766+10 ¹ 2,5210 2,5260+10 ⁻¹ 2,5494+10 ⁻²
10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819 607 1,4509 - 10 ² 1,4515 - 10 ⁻¹ 1,4553 - 10 ⁻² 1,4577 - 10 ⁻³ 1,4597 - 10 ⁻⁴ 1,6376 - 10 ⁻¹	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992903552 1000,00992904651 OT _p 8,3796 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2565 · 10 ⁻⁶ 8,4046 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶	0,1000000000000000000000,09999999999999	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,20324950 829 2,5122 · 10 ⁴ 2,1233 · 10 ² 2,4752 · 10 ¹ 2,5196 2,5243 · 10 ⁻² 2,5294 · 10 ⁻² 3,3913 · 10 ⁻³	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,29005556392400 9,20008899787535 607 1,4507 · 10 ⁻² 1,208 1,4900 · 10 ⁻¹ 1,4537 · 10 ⁻² 1,4562 · 10 ⁻³ 1,4627 · 10 ⁻⁴ 2,3434 · 10 ⁻⁵	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992894953 1000,00992894953 1000,00992903452 1000,00992905726 61°, 8,3954 + 10° 2 7,0826 - 10° 4 8,2564 + 10° 2 8,4946 - 10° 4 8,4940 - 10° 4 8,4990 - 10° 4 2,2740 - 10° 4	0,100000000000000000000000000000000000	10008306,1718827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819
10 ³ 10 ³ 10 ⁴ 10 ⁵ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ⁸	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992809135 1000,00992903552 1000,00992904651 6T ₇ 8,3796 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2565 · 10 ⁻⁵ 8,4046 · 10 ⁻⁶ 8,4202 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶	0,1000000000000000000000,09999999999999	2002781.31911852 2002993.65017758 2003018.40248872 2003020,92213354 2003021,17456373 2003021,1998815 2003021,20324950 8889 2,5122 10 ⁴ 2,4752 10 ⁴ 2,5196 2,5243 10 ⁻² 2,5294 10 ⁻² 2,5294 10 ⁻² 2,5294 10 ⁻² 2,5294 10 ⁻² 2,5294 10 ⁻²	10 10 ² 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ⁷ 10 ⁸ 10 ⁹ 10 ¹⁰ 10	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928923446 9,20008899787535 609 1,4507 · 10 ² 1,2088 1,4300 · 10 ⁻¹ 1,4562 · 10 ⁻³ 1,4662 · 10 ⁻³ 1,4567 · 10 ⁻⁴ 2,3434 · 10 ⁻² 1,4507 · 10 ⁻⁴ 1,4507 · 10 ⁻⁴	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992894953 1000,00992894953 1000,00992905726 617 8,3954 · 10 -2 7,0826 · 10 -4 8,2564 · 10 -2 8,4046 · 10 -9 8,4990 · 10 -0 2,2740 · 10 -0 8,3958 · 10 -10	0,100000000000000000000000000000000000	10008306,1718827 10008518,6162407 10008543,3817823 10008546,1553823 10008546,1808763 10008546,1808763 2,5182+10 ² 2,1244+10 ² 2,4766+10 ¹ 2,5260+10 ⁻¹ 2,5494+10 ⁻² 6,8056+10 ⁻³ 2,5182+10 ⁻⁴
10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁶ 10 ¹⁰ 10 ¹¹	9,05060515444427 9,19375561457377 9,20830849818162 9,20976618582245 9,20992848275819 607 1,4509-10 ² 1,4515-10 ⁻¹ 1,4553-10 ⁻² 1,4577-10 ⁻³ 1,4592-10 ⁻⁴ 1,6376-10 ⁻³ 1,4509-10 ⁻⁸ 1,4509-10 ⁻⁸	1000,00983714003 1000,00991970454 1000,00992809135 1000,00992903552 1000,00992904651 617 8,3796 · 10 ⁻² 7,0826 · 10 ⁻⁴ 8,2565 · 10 ⁻⁵ 8,4004 · 10 ⁻⁶ 8,4202 · 10 ⁻⁶ 8,4370 · 10 ⁻⁶ 1,0990 · 10 ⁻⁸ 8,3799 · 10 ⁻¹⁰ 8,3787 · 10 ⁻¹¹	0,1000000000000000000000,09999999999999	2002781.31911852 2002993.65017758 2003018.40248872 2003020.92213354 2003021,17456373 2003021,19985815 2003021,20324950 00000000000000000000000000000000000	10 10 ² 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,19991928923446 9,20008899787535 609 1,4507 · 10 ² 1,2088 1,4300 · 10 ⁻¹ 1,4562 · 10 ⁻³ 1,4662 · 10 ⁻³ 1,4567 · 10 ⁻⁴ 2,3434 · 10 ⁻² 1,4507 · 10 ⁻⁴ 1,4507 · 10 ⁻⁴	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992894953 1000,00992894953 1000,0099289452 1000,00992895726 6fg 8,3954 · 10 · 2 7,0826 · 10 · 4 8,2564 · 10 · 3 8,4046 · 10 · 0 8,4215 · 10 · 3 8,4990 · 10 · 0 2,2740 · 10 · 0 8,3958 · 10 · 10 8,3958 · 10 · 10 8,3901 · 10 · 11 8,3901 · 10 · 11 8,4129 · 10 · 12	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 027 2,1244 + 10 ² 2,4766 - 10 ⁴ 2,5240 2,5240 2,5260 - 10 ⁻³ 2,5494 - 10 ⁻² 2,5182 - 10 ⁻⁴ 2,5182 - 10 ⁻⁴ 2,5183 - 10 ⁻⁵
10 ² 10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁶ 10 ⁷ 10 ⁶	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992904651 0fg 8,3796 · 10 ⁻² 7,0826 · 10 ⁻³ 8,4046 · 10 ⁻³ 8,4046 · 10 ⁻³ 8,4370 · 10 ⁻³ 1,0990 · 10 ⁻³ 8,3799 · 10 ⁻¹⁰ 8,3787 · 10 ⁻¹¹ 8,4128 · 10 ⁻¹²	0,1000000000000000000000,09999999999999	2002781.31911852 2002993.65017758 2003018.40248872 2003020,92213354 2003021,17456373 2003021,19985815 2003021,20324950 8237 2,5122 · 10 ⁴ 2,1233 · 10 ⁻³ 2,5243 · 10 ⁻³ 2,5244 · 10 ⁻² 3,3913 · 10 ⁻³ 2,5122 · 10 ⁻⁴ 2,5121 · 10 ⁻⁴ 2,5121 · 10 ⁻⁴ 2,5121 · 10 ⁻⁴ 2,5122 · 10 ⁻⁴	10 10 ² 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ⁷ 10 ⁸ 10 ⁹ 10 ¹⁰ 10	7,83212547315452 9,04097953464169 9,18392577772829 9,19846309125993 9,20008899787535 609 1,4507 - 10 ⁻² 1,208 1,4507 - 10 ⁻² 1,4562 - 10 ⁻² 1,4507 - 10 ⁻⁴ 2,3434 - 10 ⁻² 1,4507 - 10 ⁻⁴ 1,4507 - 10 ⁻⁴ 1,4507 - 10 ⁻⁶ 1,4507 - 10 ⁻⁶	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992894953 1000,00992894953 1000,0099289452 1000,00992895726 6fg 8,3954 · 10 · 2 7,0826 · 10 · 4 8,2564 · 10 · 3 8,4046 · 10 · 0 8,4215 · 10 · 3 8,4990 · 10 · 0 2,2740 · 10 · 0 8,3958 · 10 · 10 8,3958 · 10 · 10 8,3901 · 10 · 11 8,3901 · 10 · 11 8,4129 · 10 · 12	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008546,1553823 10008546,1858763 10008546,1876819 2,5182 - 10 ² 2,1244 + 10 ² 2,4766 - 10 ⁴ 2,5210 2,5260 - 10 ⁻¹ 2,5494 - 10 ⁻² 6,8056 - 10 ⁻¹ 2,5183 - 10 ⁻⁵ 2,5183 - 10 ⁻⁵
10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁶ 10 ¹⁰ 10 ¹¹	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992904651 007 8,3796 · 10 -4 8,2565 · 10 -5 8,4046 · 10 -6 8,4202 · 10 -7 8,4370 · 10 -6 8,3799 · 10 -10 8,3787 · 10 -11 8,4128 · 10 -12	0,1000000000000000000000,09999999999999	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,29985815 2003021,200324950 82,9 2,5122 - 10 ⁴ 2,5196 2,5243 - 10 ⁻² 2,5294 - 10 ⁻² 2,5294 - 10 ⁻² 2,5122 - 10 ⁻⁴ 2,5122 - 10 ⁻⁴	10 10 ² 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁶ 10 ¹ 10	7,83212547315452 9,04097953464169 9,18392577772829 9,19846309125933 9,20008899787535 607 1,4507 - 10 ⁻² 1,2088 1,4507 - 10 ⁻² 1,4562 - 10 ⁻³ 1,4507 - 10 ⁻⁴ 1,4507 - 10 ⁻⁴ 1,4507 - 10 ⁻⁶ 1,4507 - 10 ⁻⁶ 1,4507 - 10 ⁻⁶ 1,4507 - 10 ⁻⁶	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992903452 1000,00992905726 6fg 8,3954 · 10 · 2 7,0826 · 10 · 4 8,2564 · 10 · 3 8,4046 · 10 · 0 8,4215 · 10 · 7 8,4990 · 10 · 0 2,2740 · 10 · 4 8,3958 · 10 · 10 8,3951 · 10 · 10 8,3951 · 10 · 10	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 2,5182-10 ² 2,1244+10 ³ 2,4766-10 ⁴ 2,5210 2,5260-10 ⁻³ 2,5494-10 ⁻³ 6,8056-10 ⁻³ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴
10 ² 10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁶ 10 ⁷ 10 ⁶	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992904651 017 8,3796 · 10 · 2 7,0826 · 10 · 3 8,4046 · 10 · 6 8,4202 · 10 · 7 8,4370 · 10 · 8 8,3797 · 10 · 10 8,3787 · 10 · 11 8,4128 · 10 · 6 0	0,1000000000000000000000,09999999999999	2002781.31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,19985815 2003021,20924950 827) 2,5122 · 10 ⁴ 2,5196 2,5243 · 10 ⁻¹ 2,5294 · 10 ⁻² 2,5122 · 10 ⁻⁴ 2,5122 · 10 ⁻⁴ 2,5122 · 10 ⁻⁴ 2,5122 · 10 ⁻⁴ 2,5122 · 10 ⁻⁶ 2,5122 · 10 ⁻⁶	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁶ 10 ⁷ 10 ⁶ 10	7,83212547315452 9,04097953464169 9,18392577772829 9,19846309125933 9,20008899787535 607 1,4507 - 10 ⁻² 1,2088 1,4507 - 10 ⁻² 1,4562 - 10 ⁻³ 1,4507 - 10 ⁻⁴ 1,4507 - 10 ⁻⁴ 1,4507 - 10 ⁻⁶ 1,4507 - 10 ⁻⁶ 1,4507 - 10 ⁻⁶ 1,4507 - 10 ⁻⁶	1000,00912888264 1000,00983713831 1000,00991287738 1000,00992894953 1000,00992903452 1000,00992905726 617 8,3954 - 10 ⁻² 7,0826 - 10 ⁻⁴ 8,2564 - 10 ⁻³ 8,4046 - 10 ⁻³ 8,4046 - 10 ⁻³ 8,4215 - 10 ⁻³ 8,4990 - 10 ⁻⁶ 2,2740 - 10 ⁻⁴ 8,3958 - 10 ⁻¹⁰ 8,3901 - 10 ⁻¹¹ 8,4128 - 10 ⁻¹³	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 2,5182-10 ² 2,1244+10 ³ 2,4766-10 ⁴ 2,5210 2,5260-10 ⁻³ 2,5494-10 ⁻³ 6,8056-10 ⁻³ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴
10 ² 10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁶	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992895115 1000,00992904651 0100,00992904651 0100,00992904651 8,3796 · 10 · 2 8,4565 · 10 · 3 8,4046 · 10 · 3 8,4202 · 10 · 3 8,4370 · 10 · 6 1,0990 · 10 · 8 8,3787 · 10 · 11 8,4128 · 10 · 12 0 0	0,1000000000000000000000,09999999999999	2002781.31911852 2002993.65017758 2003018.40248872 2003020,92213354 2003021,17456373 2003021,19985815 2003021,20324950 2,5122 · 10 ⁴ 2,1233 · 10 ⁻² 2,5196 2,5243 · 10 ⁻² 2,5126 · 10 ⁻³ 2,5122 · 10 ⁻⁴ 2,5122 · 10 ⁻⁴ 2,5121 · 10 ⁻⁴	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹ 10 ¹¹ 10 ¹² 10 ¹³	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 8,19991928929446 9,20008899787535 602 1,4507 · 10 ² 1,4507 · 10 ² 1,4562 · 10 ² 1,4567 · 10 ⁴ 2,3434 · 10 ⁻² 1,4507 · 10 ⁻¹⁰ 1,4507 · 10 ⁻¹⁰ 1,4507 · 10 ⁻¹⁰ 1,4506 · 10 ⁻¹¹ 1,4513 · 10 ⁻¹² 1,4566 · 10 ⁻¹¹	1000,00912888264 1000,00983713831 1000,00992810738 1000,00992810738 1000,00992903452 1000,00992903452 1000,00992905726 OT; 8,3954 · 10 · 2 7,0826 · 10 · 4 8,2564 · 10 · 3 8,4046 · 10 · 6 8,4215 · 10 · 7 8,4990 · 10 · 6 2,2740 · 10 · 8 8,3958 · 10 · 10 8,3958 · 10 · 10 8,3901 · 10 · 11 8,3128 · 10 · 10 0 0	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 2,5182-10 ² 2,1244+10 ³ 2,4766-10 ⁴ 2,5210 2,5260-10 ⁻³ 2,5494-10 ⁻³ 6,8056-10 ⁻³ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴
10 ² 10 ³ 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁷ 10 ⁶ 10 ⁷ 10 ⁶ 10 ⁷ 10 ⁶ 10 ⁷ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹³ 10 ¹³ 10 ¹³ 10 ¹⁴ 10 ¹⁵ 10	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992810913 1000,00992903552 1000,00992904651 OF: 8,3796 · 10 · 2 7,0826 · 10 · 4 8,2565 · 10 · 3 8,4046 · 10 · 6 8,4202 · 10 · 3 8,4370 · 10 · 8 1,0990 · 10 · 8 8,3787 · 10 · 11 8,4128 · 10 · 12 0 0 0	0,1000000000000000000000,09999999999999	2002781,31911852 2002993,65017758 2003018,40248872 2003020,92213354 2003021,17456373 2003021,20324950 6240 2,5122 · 10 ⁻⁴ 2,5123 · 10 ⁻² 2,5126 · 10 ⁻² 2,5243 · 10 ⁻² 2,5224 · 10 ⁻³ 2,5122 · 10 ⁻⁴ 2,5122 · 10 ⁻⁴ 2,5122 · 10 ⁻⁶ 2,5122 · 10 ⁻⁶ 2,5122 · 10 ⁻⁶ 2,5122 · 10 ⁻⁶ 2,5122 · 10 ⁻⁶ 2,5121 · 10 ⁻⁶	100 100 ³ 100 ⁴ 100 ⁵ 100 ⁵ 100 ⁵ 100 ⁶ 100 ⁶ 100 ⁶ 100 ⁸ 100 ⁸ 100 ⁸ 100 ¹⁰ 1010	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 8,19991928929446 9,20008899787535 602 1,4507 · 10 ² 1,4507 · 10 ² 1,4562 · 10 ² 1,4567 · 10 ⁴ 2,3434 · 10 ⁻² 1,4507 · 10 ⁻¹⁰ 1,4507 · 10 ⁻¹⁰ 1,4507 · 10 ⁻¹⁰ 1,4506 · 10 ⁻¹¹ 1,4513 · 10 ⁻¹² 1,4566 · 10 ⁻¹¹	1000,00912888264 1000,00983713831 1000,00991970277 1000,00992810738 1000,00992894953 1000,00992894953 1000,00992905726 CIF 8,3954 · 10 · 2 7,0826 · 10 · 4 8,2564 · 10 · 3 8,4046 · 10 · 4 8,4215 · 10 · 3 8,4990 · 10 · 10 8,3956 · 10 · 10 8,3956 · 10 · 10 8,3956 · 10 · 10 8,3956 · 10 · 10 8,3956 · 10 · 10 8,3956 · 10 · 10 8,3956 · 10 · 10 8,3956 · 10 · 10 0 0 0 0	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1808763 10008546,1876819 2,5182-10 ² 2,1244+10 ³ 2,4766-10 ⁴ 2,5210 2,5260-10 ⁻³ 2,5494-10 ⁻³ 6,8056-10 ⁻³ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴ 2,5183-10 ⁻⁴
10 ³ 10 ⁴ 10 ² 10 ⁶ 10 ⁷ 10 ⁷ 10 ⁷ 10 ⁶ 10 ⁷ 10 ⁶ 10 ⁷ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴ 10 ¹³ 10 ¹⁴ 10 ¹⁵ 10 ¹⁵ 10 ¹⁶ 10 ¹⁷ 10 ¹⁸	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,00992810913 1000,009928095115 1000,00992904651 OTe 8,3796 · 10 · 2 7,0826 · 10 · 4 8,2565 · 10 · 5 8,4046 · 10 · 6 8,4102 · 10 · 7 1,0990 · 10 · 10 8,3787 · 10 · 11 8,4128 · 10 · 12 0 0 0 0	0,1000000000000000000000,09999999999999	2002781.31911852 2002993.65017758 2003018.40248872 2003020.92213354 2003021,17456373 2003021,20324950 25122 10 ⁻¹ 2,1233 10 ⁻² 2,5126 10 ⁻² 2,5243 10 ⁻² 2,5244 10 ⁻² 2,5244 10 ⁻² 2,522 10 ⁻⁴ 2,5122 10 ⁻⁴ 2,5122 10 ⁻⁶ 2,5122 10 ⁻⁶ 2,5122 10 ⁻⁶ 2,5122 10 ⁻⁶ 2,5122 10 ⁻⁶ 2,5122 10 ⁻⁶ 2,5122 10 ⁻⁶ 2,5121 10 ⁻⁶	10 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹ 10 ¹¹ 10 ¹² 10 ¹³	7,83212547315452 9,04092953464169 9,18392577772829 9,19846309125933 9,29005556392400 9,20008899787535 607 1,4507 · 10 ⁻² 1,208 1,4500 · 10 ⁻¹ 1,4562 · 10 ⁻² 1,4567 · 10 ⁻² 1,4507 · 10 ⁻² 1,4513 · 10 ⁻² 1,4511 · 10 ⁻² 1,4511 · 10 ⁻²	1000,00912888264 1000,00983713831 1000,00992810738 1000,00992894953 1000,00992894953 1000,00992894953 1000,00992894953 2000,0099289453 2000,0099289452 2000,0099289452 2000,0099289452 2000,0099289452 2000,0099289452 2000,0099289452 2000,00992	0,100000000000000000000000000000000000	10008306,1718827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1553823 10008546,1876819 2,5182 - 10 ² 2,1244 + 10 ² 2,5260 - 10 ³ 2,5240 - 10 ³ 2,5182 - 10 ⁴ 2,5183 - 10 ⁵ 2,5183 - 10 ⁵ 2,5183 - 10 ⁵ 2,5183 - 10 ⁵ 2,5184 - 10 ⁷ 2,6077 - 10 ⁸ 0 0
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10 ³ 10 ⁴ 10 ² 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁶ 10 ¹⁰	9,05060515444427 9,19375561457377 9,20830849818162 9,209921210652369 9,20992848275819	1000,00983714003 1000,00992809313 1000,00992809313 1000,00992904651 OF: 8,3796·10 ⁻² 7,0826·10 ⁻⁴ 8,2565·10 ⁻⁸ 8,4046·10 ⁻⁶ 8,4046·10 ⁻⁶ 8,4020·10 ⁻³ 8,4370·10 ⁻⁸ 1,0990·10 ⁻¹⁰ 8,3787·10 ⁻¹¹ 8,4128·10 ⁻¹² 0 0 0 1 1 1000,00992904483 1000,00992904483 1000,00992904483 1000,00992904483	0,1000000000000000000000,09999999999999	2002781.31911852 2002993.65017758 2003018.40248872 2003020.92213354 2003021,17456373 2003021,20324950 2,5122 · 10 ⁻¹ 2,1233 · 10 ⁻² 2,5126 · 10 ⁻² 2,5126 · 10 ⁻² 2,5126 · 10 ⁻² 2,5122 · 10 ⁻⁴ 2,5122 · 10 ⁻⁴ 2,5122 · 10 ⁻⁶ 2,5122 · 10 ⁻⁶ 2,5122 · 10 ⁻⁶ 2,5121 · 10 ⁻⁶ 2,5122	100 103 104 105 106 107 106 107 107 107 107 107 107 107 107 107 107	7,83212547315452 9,04097953464169 9,18392577772829 9,19846309125933 8,199919289292446 9,20008899787535 607 1,4507 · 10 ⁻² 1,4507 · 10 ⁻² 1,4507 · 10 ⁻² 1,4562 · 10 ⁻³ 1,4567 · 10 ⁻² 1,4507 · 10 ⁻² 1,4508 · 10 ⁻¹² 1,4513 · 10 ⁻¹² 1,4566 · 10 ⁻¹³ 1,4511 · 10 ⁻¹⁴ 9,2000810752064 9,2000816624627 9,2000816823639 9,20008168236309	1000,00912888264 1000,00983713831 1000,00992810738 1000,0099289953 1000,00992903452 1000,00992903452 1000,0099290376 8,3954 · 10 · 3 8,4966 · 10 · 4 8,2564 · 10 · 3 8,4940 · 10 · 4 8,4950 · 10 · 10 8,3958 · 10 · 10 8,3958 · 10 · 10 8,3958 · 10 · 10 0 0 0 0 0 0 1000,00992904385 1000,00992904385 1000,00992904385	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008545,9027777 10008546,1858763 10008546,1858763 10008546,1876819 2,5182 - 10 ² 2,1244 + 10 ² 2,5260 + 10 ³ 2,5240 + 10 ³ 2,5182 - 10 ⁴ 2,5183 + 10 ⁵ 2,5183 - 10 ⁵ 2,5183
10 ³ 10 ⁴ 10 ² 10 ⁴ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁶ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴ 10 ¹⁵ 10 ¹⁶ 10 ¹⁶ 10 ¹⁷ 10 ¹⁸	9,05060515444427 9,19375561457377 9,20830849818162 9,20991210652369 9,20992848275819	1000,00983714003 1000,00991970454 1000,009928095115 1000,00992904651 01; 8,3796 · 10 · 2 7,0826 · 10 · 4 8,2565 · 10 · 5 8,4046 · 10 · 6 8,4202 · 10 · 7 1,0990 · 10 · 10 8,3787 · 10 · 11 8,4128 · 10 · 12 0 0 0 0 1 1000,0099290443 1000,00992904483 1000,00992904483 1000,00992904483 1000,00992904483 1000,00992904483	0,10000000000000000000,099999999999856 0,09999999999856 0,0999999999922464 607,6 -8,0491 : 10 ⁻¹⁶ -1,0700 : 10 ⁻¹⁴ -1,3300 : 10 ⁻¹³ -1,4880 : 10 ⁻¹³ 1,1217 : 10 ⁻¹⁴ -8,7121 : 10 ⁻¹⁴	2002781.31911852 2002993.65017758 2003018.40248872 2003020.92213354 2003021.17456373 2003021.20324950 2.5122 10 ⁻¹ 2.1233 10 ² 2.4752 101 2.5126 10-2 2.5243 10-3 2.5224 10-3 2.5122 10-4 2.5122 10-4 2.5122 10-4 2.5122 10-6 2.5122 10-6 2.5122 10-6 2.5122 10-7 2.5122 10	100 103 104 105 106 106 106 106 106 106 106 106 106 106	7,83212547315452 9,04097953464169 9,18392577772829 9,19846309125933 9,200055563992400 9,20005899787535 607 1,4507 · 10 ⁻² 1,208 1,4507 · 10 ⁻² 1,4562 · 10 ⁻³ 1,4562 · 10 ⁻³ 1,4567 · 10 ⁻⁴ 2,3434 · 10 ⁻⁵ 1,4507 · 10 ⁻⁶ 1,4508 · 10 ⁻¹¹ 1,4513 · 10 ⁻¹² 1,4566 · 10 ⁻¹¹ 1,4511 · 10 ⁻¹⁴ 1,29 9,20008168236309 9,20008168236309 9,20008168236309 9,20008168236309 9,20008168236309 9,20008168236309 9,20008168236309 9,20008168236309	1000,00912888264 1000,00983713831 1000,00992810738 1000,00992894953 1000,0099290452 1000,00992905726 617 8,3954 · 10 · 2 7,0826 · 10 · 4 8,2564 · 10 · 3 8,4046 · 10 · 4 8,4215 · 10 · 3 8,4990 · 10 · 6 2,2740 · 10 · 6 8,3958 · 10 · 10 8,3958 · 10 · 10 0 0 0 0 0 0 10 0 0 10 1000,00992904385 1000,00992904385 1000,00992904385 1000,00992904385	0,100000000000000000000000000000000000	10008306,1716827 10008518,6162407 10008543,3817823 10008546,1853823 10008546,1808763 10008546,1808763 10008546,1876819 2,5182 - 10 ² 2,1244 + 10 ² 2,5260 - 10 ³ 2,5260 - 10 ³ 2,5182 - 10 ⁴ 2,5183 - 10 ⁵ 2,5183 - 10 ⁵ 2,5184 - 10 ⁷ 2,5146 - 10 ⁷ 2,5146 - 10 ⁷ 2,5146 - 10 ⁷ 2,5146 - 10 ⁷ 2,6077 - 10 ⁷⁸ 0 0 0 10008546,1836744 10008546,1836744 10008546,1836744
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Tab. C.3: Calculation of relativistic rocket velocity according to program Type: "A1", $v_0'=-4$ km/s, $\Delta m_0=0.09\%$, $t_0=1000$ s a) $v_0=0$, b) $v_0=369$ km/s, c) $v_0=2000$ km/s, d) $v_0=10000$ km/s

N	Py .	f _T	m_N	X _N	N	Pz	f _T	m_N	X _N
10	196,021417688228	10002,2826214110	0,1000000000000000	684187,711109235	10	196,020933328363	10002,2826210019	0,1000000000000000	4374191,05576218
103	226,275235660056	10002,4597552575	0,0999999999999	737269,299206788	103	226,274637774396	10002,4597547615	0,0999999999999	4427272,68489423
103	229,854130642931	10002,4804055720	0,0999999999989	743457,239721413	10^{3}	229,853518480855	10002,4804050636	0,0999999999989	4433460,62991467
10*	230,217968797944	10002,4825076705	0,09999999999856	744087,136710344	104	230,217355174200	10002,4825071609	0,09999999999856	4434090,52736042
102	230,254412155672	10002,4827182607	0,09999999998368	744150,240353761	102	230,253798388818	10002,4827177511	0,09999999998368	4434153,63106899
10*	230,258057081830	10002,4827393235	0,1000000000009585	744156,551855839	106	230,257443325741	10002,4827388142	0,1000000000009585	4434159,94267449
107	230,258421713536	10002,4827414384	0,099999999922464	744157,183283767	107	230,257808300206	10002,4827409268	0,099999999922464	4434160,57580526
100	80-	ôt _T	δm_H	8x4	1.000	804	δt_{T}	δm_N	δx_{ij}
				- //					
x	3,6266 - 103	2,0948+101	100 AND 100 AND	6,2771 - 10%	x	3,6266 - 103	2,0948+101	100 AND 100 AND	6,2772+10*
103	3,0254 - 101	1,7713 - 10-1	-8,0491 - 10 ⁻¹⁶	5,3082+10*	103	3,0254 - 101	1,7713 - 10-1	-8,0491 - 10 ⁻¹⁶	5,3082+10*
103	3,5789	2,0650 - 10-3	-1,0700 - 10 ⁻¹⁴	6,1879 - 103	103	3,5789	2,0650 - 10-3	-1,0700 - 10 ⁻¹⁴	6,1879 · 10 ³
104	3,6384 · 10"1	2,1021 - 10-3	-1,3300 - 10 ⁻¹³	6,2990 - 102	104	3,6384 - 10-1	2,1021 - 10-3	-1,3300 - 10 ⁻¹³	6,2990 - 102
101	3,6443 - 10-1	2,1059 - 10-4	-1,4880 · 10 ⁻¹²	6,3104 - 10 ¹	101	3,6443 - 10-1	2,1059 - 10-4	-1,4880 · 10 ⁻¹²	6,3104 - 10 ¹
10°	3,6449 - 10-3	2,1063 - 10-5	1,1217 - 10-11	6,3115	10°	3,6449 - 10-3	2,1063 - 10-5	1,1217 - 10-11	6,3116
107	3,6463 · 10-4	2,1149 - 10-6	-8,7121 · 10 ⁻¹¹	6,3143 · 10-1	107	3,6497 · 10-4	2,1126 - 10-6	-8,7121 · 10 ⁻¹¹	6,3313 · 10-1
102	3,6266 - 10-5	2,0948 - 10-7		6,2772 - 10-2	102	3,6266 - 10-5	2,0948 - 10-7		6,2772 - 10-2
104	3,6266 - 10-6	2,0947 - 10 ⁻⁹		6,2772 · 10 ⁻⁸	104	3,6266 - 10-6	2,0947 - 10-9		6,2772 - 10 ⁻⁸
1010	3,6266 - 10-7	2,0955 - 10-9		6,2772 - 10 4	1010	3,6266 - 10-7	2,0955 - 10-9		6,2772 - 10 4
1011	3,6266 · 10-8	2,0918 - 10-10		6,2772 · 10-5	1011	3,6266 · 10-8	2,0918 - 10-10		6,2772 · 10-5
10^{12}	3,6266 - 10-9	2,1828 - 10-11		6,2772 - 10-8	10^{12}	3,6266 - 10-9	2,1828 - 10-11		6,2771 - 10-8
10^{13}	3,6266 - 10-10	0		6,2771 · 10-7	10^{13}	3,6266 - 10-10	0		6,2771 · 10 ⁻⁷
1018	3,6266 - 10-11	0		6,2748 - 10-8	1018	3,6266 - 10-11	0		6,2399 - 10-8
1015	3,6380 - 10-12	0		6,2864 - 10-9	10^{15}	3,6380 - 10-12	0		0
1010	3,6948 - 10-11	0		0	1010	3,6948 - 10-22	0		0
100	1/7	T ₂ -		χ_{N}		D ₇	T _F		χ_{K}
-	MANAGEMENT OF THE PARTY OF THE					ALCOHOLD STATE OF			
10	230,258419745292			744157,179575260	10	230,257805988392	and a contract of the second s		4434160,57039689
108		10002,4827416278		744157,242347202	108	230,257842254657			4434160,63316912
10*		10002,4827416488		744157,248624396	10*	230,257845881283	10002,4827411395		4434160,63944635
1010	230,258460000936	10002,4827416509		744157,249252115	1010	230,257846243946	10002,4827411415		4434160,64007407
1011	230,258460037202	10002,4827416511		744157,249314887	1011	230,257846280212	10002,4827411418		4434160,64013684
1012	230,258460040829	10002,4827416511		744157,249321164	1012	230,257846283839	10002,4827411418		4434160,64014312
1013	230,258460041192	10002,4827416511		744157,249321792	10^{13}	230,257846284201	10002,4827411418		4434160,64014375
1014	230,258460041228	10002,4827416511		744157,249321855	1014	230,257846284238	10002,4827411418		4434160,64014381
1015	230,258460041231	10002,4827416511	a)	744157,249321861	1015	230,257846284241	10002,4827411418	b)	4434160,64014382
1010		10002,4827416511	a)	744157,249321862	1010	230,257846284242	10002,4827411418	U	4434160,64014382
N	Pz	t _r	m_N	X _N	N	Pz	t _r	m _N	x_N
10	196,011677951838	10002,2826191942	0,1000000000000000	20684648,1809011	10	195,798241945411	10002,2826103399	0,1000000000000000	100740248,476771
101	226,263782574663	10002,4597525694	0,0999999999999	20737730,9547342	102	226,016565669348	10002,4597418176	0,09999999999999	100793359,642360
103	229,842470286295	10002,4804028168	0,0999999999989	20743919,0319696	103	229,591238915968	10002,4803917961	0,0999999999989	100799551,023330
10*	230,206287313833								
10050		10002,4825049083	0,09999999999856	20744548,9428655	104	229,954647601144	10002,4824938598	0,09999999999856	100800181,270485
102	230,242728572615	10002,4825049083 10002,4827154982		Constitution of the Consti	10 ⁴		10002,4824938598	0,09999999999856	Company of the Compan
10 ²			0,09999999998368	20744612,0480015	102	229,991048026237	10002,4827044481	0,09999999998368	100800244,409694
10*	230,246373417548	10002,4827154982 10002,4827365626	0,09999999998368 0,100080000009585	20744612,0480015 20744618,3601214	10 ² 10 ⁶	229,991048026237 229,994689292966	10002,4827044481 10002,4827255184	0,09999999998368	100800244,409694 100800250,727051
100	230,246373417548 230,246739825310	10002,4827154982 10002,4827365626 10002,4827386978	0,09999999998368 0,100000000009585 0,099999999922464	20744612,0480015 20744618,3601214 20744619,0002277	102	229,991048026237 229,994689292966 229,995062373247	10002,4827044481 10002,4827255184 10002,4827277682	0,09999999998368 0,100000000009585 0,099999999922464	100800244,409694 100800250,727051 100800251,401665
10 ⁶ 10 ⁷	230,246373417548 230,246739825310 607	18002,4827154982 18002,4827365626 18002,4827386978 660	0,09999999998368 0,100080000009585	20744612,0480015 20744618,3601214 20744619,0002277 55x ₃	10 ² 10 ⁶ 10 ⁷	229,991048026237 229,994689292966 229,995062373247	18002,4827044481 18002,4827255184 18002,4827277682	0,09999999998368	100800244,409694 100800250,727051 100800251,401665 8x _H
10 ⁶ 10 ⁷	230,246373417548 230,246739825310 607 3,6264-10 ³	10002,4827154982 10002,4827365626 10002,4827386978 60° ₇ 2,0949+10 ³	0,09999999938368 0,100000000009585 0,099999999922464 8m _N	20744612,0480015 20744618,3601214 20744619,0002277 8277 6,2775 - 10 th	10 ² 10 ⁶ 10 ⁷	229,993048026237 229,994689292966 229,995062373247 607 3,6225-10 ³	10002,4827044481 10002,4827255184 10002,4827277682 60° _T 2,0950+10°	0,0999999998368 0,100000000009585 0,099999999922464 8m _N	100800244,409694 100800250,727051 100800251,401665 8277 6,2812+10 ⁶
10 ⁶ 10 ⁷	230,246373417548 230,246739825310 607	18002,4827154982 18002,4827365626 18002,4827386978 660	0,0999999998368 0,10000000009985 0,099999999922464	20744612,0480015 20744618,3601214 20744619,0002277 55x ₃	10 ² 10 ⁶ 10 ⁷	229,991048026237 229,994689292966 229,995062373247	18002,4827044481 18002,4827255184 18002,4827277682	0,0999999998368 0,100000000099585 0,09999999922464 6m _H	100800244,409694 100800250,727051 100800251,401665 8x _H
10 ⁶ 10 ⁷ 10 ³ 10 ³	230,246373417548 230,246739825310 607 3,6264-10 ³	10002,4827154982 10002,4827365626 10002,4827386978 60° ₇ 2,0949+10 ³	0,09999999938368 0,100000000009585 0,099999999922464 8m _N	20744612,0480015 20744618,3601214 20744619,0002277 8277 6,2775 - 10 th	10 ² 10 ⁶ 10 ⁷ 10 ³ 10 ³	229,993048026237 229,994689292966 229,995062373247 607 3,6225-10 ³	10002,4827044481 10002,4827255184 10002,4827277682 60° _T 2,0950+10°	0,0999999998368 0,100000000009585 0,099999999922464 8m _N	100800244,409694 100800250,727051 100800251,401665 8277 6,2812+10 ⁶
10 ⁶ 10 ⁷ 10 ²	230,246373417548 230,246739825310 807, 3,6264 - 10 ³ 3,0252 - 10 ¹	10002,4827154982 10002,4827365626 10002,4827386978 607 2,0949+10 ³ 1,7713+10 ⁻¹	0,0999999998368 0,10000000009985 0,099999999922464	20744612,0480015 20744618,3601214 20744619,0002277 8277 6,2775+10 th 5,3083+10 th	10 ² 10 ⁶ 10 ⁷ 10 ² 10 ³ 10 ⁴	229,993048026237 229,994889292966 229,995062373247 80°, 3,6229 - 10 ³ 3,0238 - 10 ¹	10002,4827044481 10002,4827255184 10002,4827277682 60° ₇ 2,0950 - 10° 1,7713 - 10°	0,0999999998368 0,100000000099585 0,09999999922464 6m _H	100800244,409694 100800250,727051 100800251,401665 8xiii 6,2812+10 ⁶ 5,3111+10 ⁴ 6,1914+10 ⁸
10 ⁶ 10 ⁷ 10 ³ 10 ³	230,246373417548 230,246739825310 60°, 3,6264-10 ³ 3,0252-10 ¹ 3,5787	10002,4827154982 10002,4827365626 10002,4827386978 60°g 2,0949+10 ³ 1,7713+10 ⁻¹ 2,0650+10 ⁻³	0,0999999998868 0,10000000009585 0,099999999922464 5017/ -8,0491 - 10 ⁻¹⁶ -1,0700 - 10 ⁻¹⁴	20744612,0480015 20744618,3601214 20744619,0002277 6277 6,2775 + 10 ⁶ 5,3083 + 10 ⁴ 6,1881 + 10 ⁹	10 ² 10 ⁶ 10 ⁷ 10 ³ 10 ³	229,993048026237 229,994689292966 229,995062373247 80°, 3,6225 - 10 ³ 3,0218 - 10 ¹ 3,5747	10002,4827044481 10002,4827255184 10002,4827277682 60°g 2,0950 - 10° 1,7713 - 10° 1 2,0650 - 10° 2	0,0999999998368 0,10000000009855 0,099999999922464 5012 -8,0491 · 10 ⁻¹⁶ -1,0700 · 10 ⁻¹⁴	100800244,409694 100800250,727051 100800251,401665 8xyy 6,2812+10 ⁶ 5,3111+10 ⁴ 6,1914+10 ⁹
10 ⁶ 10 ⁷ 10 ² 10 ³ 10 ⁴	230,246373417548 230,246739825310 60°, 3,6264 - 10 ³ 3,0252 - 10 ¹ 3,5787 3,6382 - 10 ⁻¹	10002,4827154982 10002,4827365626 10002,4827386978 OT; 2,0949 - 10 ⁻¹ 1,7713 - 10 ⁻¹ 2,0650 - 10 ⁻² 2,1021 - 10 ⁻³	0,0999999998368 0,10000000009585 0,099999999922464 6m _H -8,0491 · 10 ⁻¹⁶ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³	20744612,0480015 20744618,3601214 20744619,0002277 527/ 6,2775 - 10 th 5,3083 - 10 th 6,1881 - 10 ² 6,2991 - 10 ²	10 ² 10 ⁶ 10 ⁷ 10 ² 10 ³ 10 ⁴	229,991048026237 229,994689292966 229,995062973247 60°, 3,6229 · 10° 3,0218 · 10° 3,5747 3,6341 · 10°	10002,4827044481 10002,4827255184 10002,4827277682 OF _p 2,0950 · 10 ⁻¹ 1,7713 · 10 ⁻¹ 2,0650 · 10 ⁻² 2,1021 · 10 ⁻³	0,0999999998368 0,10000000009585 0,099999999922464 5m _R -8,0491 · 10 ⁻¹⁶ -1,0700 · 10 ⁻¹⁶ -1,3300 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 827/ 6,2812 - 10 ⁶ 5,3111 - 10 ⁴ 6,1914 - 10 ² 6,3025 - 10 ²
10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵	230,246373417548 230,246739825310 60°, 3,6264 - 10° 3,0252 - 10° 3,5787 3,6382 - 10° 1 3,6441 - 10° 2	10002,4827154982 10002,4827365626 10002,4827386978 Off 2,0949 - 10 ⁻¹ 1,7713 - 10 ⁻¹ 2,0650 - 10 ⁻² 2,1021 - 10 ⁻² 2,1059 - 10 ⁻⁴	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁶ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻²²	20744612,0480015 20744618,3601214 20744619,0002277 820 6,2775 + 10 th 5,3083 + 10 th 6,1881 + 10 ³ 6,2991 + 10 ² 6,3105 - 10 th	10 ³ 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵	229,991048026237 229,994689292966 229,995062373247 60°, 3,6225 · 10° 3,0218 · 10° 3,5747 3,6341 · 10° 1 3,6400 · 10°	10002,4827044481 10002,48272758184 10002,4827277682 Off 2,0950 · 10 ⁻³ 1,7713 · 10 ⁻³ 2,0650 · 18 ⁻³ 2,1021 · 10 ⁻³ 2,1059 · 10 ⁻⁴	0,09999999938368 0,10000000009585 0,099999999922464 5m _R -8,0491 · 10 ⁻¹⁶ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹²	100800244,409694 100800250,727051 100800251,401665 8x _H 6,2812 - 10 ⁶ 5,3111 - 10 ⁴ 6,1914 - 10 ³ 6,3025 - 10 ² 5,3139 - 10 ⁴
10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	230,246373417548 230,246739825310 80°, 3,6264 - 10° 3,0252 - 10° 3,5387 3,6382 - 10° 1 3,6441 - 10° 3	10002,4827154982 10002,4827365626 10002,4827386978 61° ₇ 2,0949 - 10° 1,7713 - 10° 1 2,0650 - 10° 3 2,1021 - 10° 3 2,1059 - 10° 1 2,1064 - 10° 9	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 55.00 6,2775 - 10 th 5,3083 - 10 th 6,1881 - 10 ³ 6,2991 - 10 ³ 6,3105 - 10 ¹ 6,3121	10 ³ 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	229,991048026237 229,994689292966 229,995062373247 60°/ 3,6229 + 10° 3,0218 + 10° 3,5747 3,6341 + 10° ¹ 3,6400 + 10° ² 3,6413 + 10° ³	10002,4827044481 10002,48272758184 10002,4827277682 61°g 2,0950 - 10° 1,7713 - 10°1 2,0650 - 10°3 2,1021 - 10°3 2,1059 - 10°4 2,1070 - 10°5 2,2498 - 10°6	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 8x _H 6,2812-10 ⁶ 5,3111-10 ⁴ 6,1914-10 ³ 6,3025-10 ² 5,3139-10 ¹ 6,3174
10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	230,246373417548 230,246739825310 30°- 3,6264 - 10° 3,0252 - 10° 3,5787 3,6382 - 10° 1 3,6441 - 10° 2 3,6441 - 10° 3 3,6641 - 10° 4	10002,4827154982 10002,4827365626 10002,4827386978 61°p 2,0949-10° 1,7713-10° ¹ 2,0650-10° ³ 2,1024-10° ³ 2,1059-10° ⁴ 2,1064-10° ⁶ 2,1352-10° ⁴ 2,0949-10° ⁷	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 5x.0 6.2775 - 10 ⁶ 5.3083 - 10 ⁴ 6.1881 · 10 ³ 6,2991 - 10 ² 6,3105 - 10 ⁴ 6,3121 6,4011 · 10 ⁻¹	10 ³ 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶	229,991048026237 229,994689292966 229,995062373247 60°/	10002,4827044481 10002,48272755184 10002,4827277682 0fg 2,0950-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ⁻³ 2,1021-10 ⁻³ 2,1059-10 ⁻⁴ 2,1070-10 ⁻⁵ 2,2498-10 ⁻⁶ 2,0950-10 ⁻⁷	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 8x _N 6,2812-10 ⁶ 5,3111-10 ⁴ 6,1914-10 ³ 6,3025-10 ² 5,3139-10 ¹ 6,3174 6,7461-10 ⁻¹
10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷	230,246373417548 230,246739825310 50; 3,6264 - 10 ³ 3,0252 - 10 ¹ 3,5787 3,6382 · 10 ⁻¹ 3,6441 · 10 ⁻² 3,6441 · 10 ⁻³ 3,6441 · 10 ⁻⁴ 3,6265 · 10 ⁻⁵	10002,4827154982 10002,4827365626 10002,4827386978 61°p 2,0949-10° 1,7713-10° ¹ 2,0650-10° ³ 2,1024-10° ³ 2,1059-10° ⁴ 2,1064-10° ⁶ 2,1352-10° ⁴ 2,0949-10° ⁷	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 827) 6.2775 · 10 ⁶ 5.3083 · 10 ⁴ 6.1881 · 10 ⁹ 6.2991 · 10 ² 6.3105 · 10 ¹ 6,3121 6,4011 · 10 ⁻¹ 6,2775 · 10 ⁻²	10° 10° 10° 10° 10° 10° 10° 10° 10°	229,991048026237 229,994689292966 229,995062373247 60; 3,6225 · 10 ³ 3,0218 · 10 ¹ 3,5341 · 10 ³ 3,6400 · 10 ³ 3,6403 · 10 ³ 3,6413 · 10 ³ 3,7308 · 10 ⁴ 3,6225 · 10 ³	10002,4827044481 10002,48272755184 10002,4827277682 61°g 2,0950+10° 1,7713+10°° 2,0650+10°° 2,1024+10°° 2,1070+10°° 2,2498+10°° 2,0950+10°° 2,0950+10°° 2,0949+10°°	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 8270 6,2812 - 10 ⁶ 5,3111 - 10 ⁴ 6,1914 - 10 ² 6,3025 - 10 ² 6,3139 - 10 ¹ 6,7461 - 10 ⁻¹ 6,2813 - 10 ⁻² 6,2813 - 10 ⁻²
10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁶ 10 ⁶ 10 ⁷	230,246373417548 230,246739825310 3,6264 - 10 ² 3,0252 - 10 ¹ 3,5787 3,6842 - 10 ⁻¹ 3,6441 - 10 ⁻² 3,6441 - 10 ⁻² 3,6441 - 10 ⁻⁴ 3,6265 - 10 ⁻³ 3,6265 - 10 ⁻³	10002,4827154982 10002,4827365626 10002,4827386978 007 2,0949+10 ⁻¹ 1,7713+10 ⁻¹ 2,0650+10 ⁻² 2,1024+10 ⁻² 2,1059+10 ⁻² 2,1054+10 ⁻⁵ 2,1952+10 ⁻⁶ 2,0949+10 ⁻⁷ 2,0949+10 ⁻⁸	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 62775 - 10 ⁶ 5,3083 - 10 ⁴ 6,1881 - 10 ² 6,2991 - 10 ² 6,31021 6,4011 - 10 ⁻¹ 6,2775 - 10 ⁻² 6,2775 - 10 ⁻² 6,2775 - 10 ⁻³	10° 10° 10° 10° 10° 10° 10° 10° 10°	229,991048026237 229,994689292966 229,995062373247 60°, 3,6225 · 10³ 3,0218 · 10¹ 3,6341 · 10⁻³ 3,6400 · 10⁻³ 3,6403 · 10⁻³ 3,7308 · 10⁻⁴ 3,7308 · 10⁻⁴ 3,6225 · 10⁻³ 3,6225 · 10⁻³	10002,4827044481 10002,48272755184 10002,4827277682 60°g 2,0950 · 10° 1,7713 · 10° ° 2,0650 · 10° ° 2,1021 · 10° ° 2,1070 · 10° ° 2,2498 · 10° ° 2,0950 · 10° ° 2,0949 · 10° ° 2,0955 · 10° ° 2,0955 · 10° °	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 8270 6,2812 - 10 ⁶ 5,3111 - 10 ⁴ 6,1914 - 10 ³ 6,3025 - 10 ² 6,3174 6,7461 - 10 ⁻¹ 6,2813 - 10 ⁻²
10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ¹⁰ 10 ¹⁰	230,246373417548 230,246739825310 3,0252 - 10 ¹ 3,5287 3,6382 - 10 ⁻¹ 3,6441 - 10 ⁻² 3,6441 - 10 ⁻⁴ 3,6641 - 10 ⁻⁴ 3,625 - 10 ⁻⁶ 3,6255 - 10 ⁻⁶ 3,6265 - 10 ⁻⁶ 3,6265 - 10 ⁻⁶ 3,6265 - 10 ⁻⁶	10002,4827154982 10002,4827365626 10002,4827386978 01° 2,0949+10° 1,7713+10°° 1 2,0650+10° 2,1021+10°° 3 2,1021+10°° 3 2,1059+10°° 2,1352+10° 6 2,0949+10°°	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 6279 6.2775 · 10 th 5.3083 · 10 th 6.1881 · 10 th 6.2991 · 10 th 6.3125 · 10 th 6,3121 6,4011 · 10 th 6,2775 · 10 th 6,2775 · 10 th 6,2775 · 10 th 6,2775 · 10 th	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	229,991048026237 229,994689292966 229,995062373247 607, 3,6225 · 10 ⁻² 3,0218 · 10 ⁻¹ 3,5747 3,6341 · 10 ⁻¹ 3,6400 · 10 ⁻² 3,6413 · 10 ⁻³ 3,7308 · 10 ⁻⁴ 3,6225 · 10 ⁻⁵ 3,6225 · 10 ⁻⁵ 3,6225 · 10 ⁻⁵ 3,6225 · 10 ⁻⁵	10002,4827044481 10002,48272755184 10002,4827277682 007 2,0950+10 ³ 1,7713+10 ⁻¹ 2,0650+10 ³ 2,1021+10 ⁻³ 2,1029+10 ⁻⁴ 2,1070+10 ⁻⁵ 2,2498+10 ⁻⁶ 2,0950+10 ⁻³ 2,0949+10 ⁻⁸ 2,0955+10 ⁻³ 2,0918+10 ⁻¹⁰	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 62812+10 ⁶ 5,3111+10 ⁴ 6,1914+10 ⁹ 6,3025+10 ² 6,3139+10 ¹ 6,7461+10 ⁻¹ 6,2813+10 ⁻² 6,2813+10 ⁻³ 6,2813+10 ⁻⁴ 6,2813+10 ⁻⁵
10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ¹ 10 ⁸ 10 ⁹ 10 ¹⁰ 10 ¹¹ 10 ¹²	230,246373417548 230,246739825310 3,0252 10 ¹ 3,5787 3,6382 10 ⁻¹ 3,6441 10 ⁻² 3,6441 10 ⁻⁴ 3,6641 10 ⁻⁴ 3,6265 10 ⁻⁶	10002,4827154982 10002,4827365626 10002,4827386978 007 2,0949+10 ³ 1,7713-10 ⁻¹ 2,0650-10 ⁻³ 2,1021-10 ⁻³ 2,1059-10 ⁻⁴ 2,1064+10 ⁻⁵ 2,0949-10 ⁻⁹ 2,0949-10 ⁻⁹ 2,0949-10 ⁻⁹ 2,0955-10 ⁻⁸	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 6277 6.2775 - 10 ⁶ 5.3083 - 10 ⁴ 6.1881 - 10 ² 6.2991 - 10 ² 6.3105 - 10 ¹ 6.3121 6,4011 - 10 ⁻¹ 6,2775 - 10 ⁻² 6,2775 - 10 ⁻³ 6,2774 - 10 ⁻⁴	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	229,991048026237 229,994689292966 229,995062373247 60°, 3,6225 · 10° 3,0218 · 10° 3,5747 3,6341 · 10° 1 3,6400 · 10° 3,6413 · 10° 1 3,6225 · 10° 1	10002,4827044481 10002,48272755184 10002,4827277682 60°g 2,0950 · 10° 1,7713 · 10° ° 2,0650 · 10° ° 2,1021 · 10° ° 2,1070 · 10° ° 2,2498 · 10° ° 2,0950 · 10° ° 2,0949 · 10° ° 2,0955 · 10° ° 2,0955 · 10° °	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 820 6,2812 - 10 ⁶ 5,3111 - 10 ⁴ 6,1914 - 10 ² 6,3025 - 10 ² 6,3139 - 10 ⁴ 6,7461 - 10 ⁻¹ 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻⁴ 6,2808 - 10 ⁻⁵ 6,2883 - 10 ⁻⁶
10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ¹ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³	230,246373417548 230,246739825310 3,0252 10 3,5787 3,6382 10 3,6441 10 3,6441 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10 3,6265 10	10002,4827154982 10002,4827365626 10002,4827386978 0002 2,0949 - 10 ⁻¹ 1,7713 - 10 ⁻¹ 2,0650 - 10 ⁻² 2,1059 - 10 ⁻⁴ 2,1059 - 10 ⁻⁶ 2,1952 - 10 ⁻⁶ 2,0949 - 10 ⁻⁶ 2,0945 - 10 ⁻⁶ 2,0948 - 10 ⁻¹⁰ 2,0948 - 10 ⁻¹⁰	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 5276 6.2775 · 10 ¹⁶ 5,3083 · 10 ⁴ 6,1881 · 10 ² 6,2991 · 10 ² 6,3105 · 10 ¹⁶ 6,3121 6,4011 · 10 ⁻¹⁶ 6,2775 · 10 ⁻²⁶ 6,2775 · 10 ⁻²⁶ 6,2774 · 10 ⁻⁴⁶ 6,2771 · 10 ⁻¹⁶ 6,2771 · 10 ⁻¹⁶ 6,2957 · 10 ⁻¹⁶	10 ² 10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³	229,991048026237 229,994689292966 229,995062373247 60°, 3,6225 · 10° 3,0218 · 10° 3,5747 3,6341 · 10° 3,6400 · 10° 3,6413 · 10° 3,6225 · 10° 3,6226 · 10° 3,62	10002,4827044481 10002,48272758184 10002,4827277682 007 2,0950 - 10 ⁻¹ 1,7713 - 10 ⁻¹ 2,0650 - 18 ⁻² 2,1021 - 10 ⁻² 2,1059 - 10 ⁻⁴ 2,1070 - 10 ⁻⁵ 2,2498 - 10 ⁻⁶ 2,0955 - 10 ⁻⁷ 2,0949 - 10 ⁻⁶ 2,0955 - 10 ⁻⁷ 2,0948 - 10 ⁻¹⁰ 2,1828 - 10 ⁻¹¹	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 820 6,2812 - 10 ⁶ 5,3111 - 10 ⁶ 6,1914 - 10 ⁷ 6,3025 - 10 ⁷ 6,3139 - 10 ¹ 6,7461 - 10 ⁻¹ 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻³ 6,2808 - 10 ⁻⁵ 6,2883 - 10 ⁻⁶ 6,2883 - 10 ⁻⁶ 6,2883 - 10 ⁻⁶
10 ⁴ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴	230,246373417548 230,246739825310 3,0252 10 ¹ 3,6282 10 ⁻¹ 3,6382 10 ⁻¹ 3,6441 10 ⁻² 3,6441 10 ⁻² 3,6265 10 ⁻³	10002,4827154982 10002,4827365626 10002,4827386978 6fg 2,0949-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ⁻³ 2,1021-10 ⁻³ 2,1059-10 ⁻⁴ 2,1059-10 ⁻⁶ 2,0949-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0949-10 ⁻⁸ 2,0955-10 ⁻⁸ 2,0918-10 ⁻¹⁰ 0,0956-10 ⁻¹¹ 0	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 5279 6.2775 · 10 ¹⁰ 5,3083 · 10 ¹¹ 6,1881 · 10 ²¹ 6,2991 · 10 ²¹ 6,3105 · 10 ¹¹ 6,2775 · 10 ⁻²² 6,2775 · 10 ⁻²³ 6,2775 · 10 ⁻²³ 6,2775 · 10 ⁻²³ 6,2775 · 10 ⁻²³ 6,2771 · 10 ⁻²⁴ 6,2771 · 10 ⁻²⁴ 6,2771 · 10 ⁻²⁴ 6,2771 · 10 ⁻²⁴ 6,2771 · 10 ⁻²⁴ 6,2957 · 10 ⁻²⁵ 6,2330 · 10 ⁻²⁶	10 ² 10 ⁴ 10 ⁷ 10 ² 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹³	229,991048026237 229,995062373247 607 3,6225 · 10 ³ 3,0218 · 10 ¹ 3,5347 3,6341 · 10 ⁻¹ 3,6413 · 10 ⁻³ 3,6425 · 10 ⁻³ 3,6225 · 10 ⁻⁶ 3,6225 · 10 ⁻⁶ 3,6238 · 10 ⁻¹¹	10002,4827044481 10002,48272755184 10002,4827277682 0.070 2,0950-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ⁻² 2,1021-10 ⁻² 2,1059-10 ⁻³ 2,1070-10 ⁻⁵ 2,2498-10 ⁻⁶ 2,0950-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0950-10 ⁻⁷ 2,0948-10 ⁻¹⁰ 2,0958-10 ⁻¹⁰ 2,1828-10 ⁻¹⁰ 0	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 820 6,2812 - 10 ⁶ 5,3111 - 10 ⁴ 6,1914 - 10 ² 6,3025 - 10 ² 6,3139 - 10 ⁴ 6,7461 - 10 ⁻¹ 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻⁴ 6,2808 - 10 ⁻⁵ 6,2883 - 10 ⁻⁶
10 ⁴ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹³ 10 ¹⁴	230,246373417548 230,246739825310 3,6264 - 10 ² 3,0252 - 10 ¹ 3,5787 3,6382 - 10 ⁻¹ 3,6441 - 10 ⁻² 3,6451 - 10 ⁻² 3,6265 - 10 ⁻³	10002,4827154982 10002,4827365626 10002,4827386978 0.079 2,0949-10 ⁻¹ 1,7713-10 ⁻¹ 2,0650-10 ⁻³ 2,1021-10 ⁻³ 2,1059-10 ⁻⁴ 2,1059-10 ⁻⁶ 2,1352-10 ⁻⁶ 2,0949-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0953-10 ⁻³ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 827) 6.2775 - 10 ⁶ 5.3083 - 10 ⁴ 6.1881 - 10 ² 6.2991 - 10 ² 6.3105 - 10 ¹ 6,2775 - 10 ⁻² 6,2775 - 10 ⁻² 6,2957 - 10 ⁻² 6,3330 - 10 ⁻⁸	10 ² 10 ⁴ 10 ⁷ 10 ² 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴ 10 ¹⁵	229,991048026237 229,994689292966 229,995062373247 60°, 3,6225 · 10°1 3,5747 3,6341 · 10°1 3,6400 · 10°1 3,6403 · 10°3 3,7508 · 10°4 3,6225 · 10°3 3,6225 · 10°3 3,6226 · 10°13 3,6236 · 10°13	10002,4827044481 10002,48272755184 10002,4827277682 0fg 2,0950-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ³ 2,1021-10 ⁻³ 2,1059-10 ⁻³ 2,1070-10 ⁻³ 2,2498-10 ⁻⁶ 2,0950-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0955-10 ⁻³ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0 0	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 820 6,2812 - 10 ⁶ 5,3111 - 10 ⁶ 6,1914 - 10 ⁷ 6,3025 - 10 ⁷ 6,3139 - 10 ¹ 6,7461 - 10 ⁻¹ 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻³ 6,2808 - 10 ⁻⁵ 6,2883 - 10 ⁻⁶ 6,2883 - 10 ⁻⁶ 6,2883 - 10 ⁻⁶
10 ⁴ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴	230,246373417548 230,246739825310 3,6264 - 10 ² 3,0252 - 10 ¹ 3,5787 3,6382 - 10 ⁻¹ 3,6441 - 10 ⁻² 3,6265 - 10 ⁻³	10002,4827154982 10002,4827365626 10002,4827386978 0.079 2,0949-10 ⁻¹ 1,7713-10 ⁻¹ 2,0650-10 ⁻² 2,1021-10 ⁻² 2,1059-10 ⁻⁴ 2,1054-10 ⁻⁷ 2,0949-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0955-10 ⁻⁸ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0 0	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 827) 6.2775 · 10 ⁶ 5.3083 · 10 ⁴ 6.1881 · 10 ² 6.2991 · 10 ² 6.3105 · 10 ¹ 6.2775 · 10 ⁻² 6.2771 · 10 ⁻²	10 ² 10 ⁴ 10 ⁷ 10 ² 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹³	229,991048026237 229,994689292966 229,995062373247 60; 3,6225 · 10 ⁻³ 3,0218 · 10 ¹ 3,5347 3,6341 · 10 ⁻¹ 3,6413 · 10 ⁻³ 3,6225 · 10 ⁻⁶ 3,6225 · 10 ⁻⁶ 3,6238 · 10 ⁻¹¹ 3,6238 · 10 ⁻¹¹ 3,6948 · 10 ⁻¹²	10002,4827044481 10002,48272755184 10002,4827277682 0.07 2,0950-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ³ 2,1021-10 ⁻³ 2,1059-10 ⁻³ 2,1070-10 ⁻⁵ 2,2498-10 ⁻⁶ 2,0950-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0953-10 ⁻³ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0 0	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 5270 6,2812 - 10 ⁶ 5,3111 - 10 ⁴ 6,1914 - 10 ² 6,3025 - 10 ² 6,3139 - 10 ⁴ 6,7461 - 10 ⁻¹ 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2883 - 10 ⁻³ 6,2883 - 10 ⁻³ 6,2885 - 10 ⁻⁷ 0 0
10 ⁴ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹³ 10 ¹⁴	230,246373417548 230,246739825310 3,6264 - 10 ² 3,0252 - 10 ¹ 3,5787 3,6382 - 10 ⁻¹ 3,6441 - 10 ⁻² 3,6451 - 10 ⁻² 3,6265 - 10 ⁻³	10002,4827154982 10002,4827365626 10002,4827386978 0.079 2,0949-10 ⁻¹ 1,7713-10 ⁻¹ 2,0650-10 ⁻³ 2,1021-10 ⁻³ 2,1059-10 ⁻⁴ 2,1059-10 ⁻⁶ 2,1352-10 ⁻⁶ 2,0949-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0953-10 ⁻³ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻²² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 827) 6.2775 - 10 ⁶ 5.3083 - 10 ⁴ 6.1881 - 10 ² 6.2991 - 10 ² 6.3105 - 10 ¹ 6,2775 - 10 ⁻² 6,2775 - 10 ⁻² 6,2957 - 10 ⁻² 6,3330 - 10 ⁻⁸	10 ² 10 ⁴ 10 ⁷ 10 ² 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴ 10 ¹⁵	229,991048026237 229,994689292966 229,995062373247 60°, 3,6225 · 10°1 3,5747 3,6341 · 10°1 3,6400 · 10°1 3,6403 · 10°3 3,7508 · 10°4 3,6225 · 10°3 3,6225 · 10°3 3,6226 · 10°13 3,6236 · 10°13	10002,4827044481 10002,48272755184 10002,4827277682 0fg 2,0950-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ³ 2,1021-10 ⁻³ 2,1059-10 ⁻³ 2,1070-10 ⁻³ 2,2498-10 ⁻⁶ 2,0950-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0955-10 ⁻³ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0 0	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 820 6,2812 - 10 ⁶ 5,3111 - 10 ⁶ 6,1914 - 10 ⁷ 6,3025 - 10 ⁷ 6,3139 - 10 ¹ 6,7461 - 10 ⁻¹ 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻³ 6,2808 - 10 ⁻⁵ 6,2883 - 10 ⁻⁶ 6,2883 - 10 ⁻⁶ 6,2883 - 10 ⁻⁶
10 ⁶ 10 ⁷ 10 ² 10 ³ 10 ⁴ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴ 10 ¹⁵ 10 ¹⁶ 10	230,246373417548 230,246739825310 3,0252 10 ¹ 3,5787 3,6382 10 ⁻¹ 3,6448 10 ⁻³ 3,6441 10 ⁻⁴ 3,6265 10 ⁻³ 3,6265 10 ⁻⁴ 3,6360 10 ⁻¹ 3,6380 10 ⁻¹ 3,6948 10 ⁻²	10002,4827154982 10002,4827365626 10002,4827386978 6fg 2,0949-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ⁻³ 2,1021-10 ⁻³ 2,1059-10 ⁻⁴ 2,1059-10 ⁻⁴ 2,0949-10 ⁻⁹ 2,0949-10 ⁻⁹ 2,0955-10 ⁻³ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0 0	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻²² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 827) 6.2775 · 10 ⁶ 5.3083 · 10 ⁴ 6.1881 · 10 ² 6.2991 · 10 ² 6.3105 · 10 ¹ 6.2775 · 10 ⁻² 6.2771 · 10 ⁻²	10 ² 10 ⁴ 10 ⁷ 10 ² 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁴ 10 ¹⁵	229,991048026237 229,995062373247 607 3,6225 10 ⁻¹ 3,6341 10 ⁻¹ 3,6440 10 ⁻¹ 3,6413 10 ⁻¹ 3,6225 10 ⁻¹ 3,6238 10 ⁻¹ 3,6238 10 ⁻¹ 3,6238 10 ⁻¹ 3,6248 10 ⁻¹ 3,6948 10 ⁻¹ 3,6948 10 ⁻¹	10002,4827044481 10002,48272755184 10002,4827277682 0.07 2,0950-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ³ 2,1021-10 ⁻³ 2,1059-10 ⁻³ 2,1070-10 ⁻⁵ 2,2498-10 ⁻⁶ 2,0950-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0953-10 ⁻³ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0 0	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 5270 6,2812 - 10 ⁶ 5,3111 - 10 ⁴ 6,1914 - 10 ² 6,3025 - 10 ² 6,3139 - 10 ⁴ 6,7461 - 10 ⁻¹ 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2813 - 10 ⁻² 6,2883 - 10 ⁻³ 6,2883 - 10 ⁻³ 6,2885 - 10 ⁻⁷ 0 0
10 ⁴ 10 ⁷ 10 ³ 10 ⁴ 10 ⁷ 10 ⁸ 10 ¹⁰ 1	230,246373417548 230,246739825310 3,0252 10 ¹ 3,5787 3,6382 10 ⁻¹ 3,6448 10 ⁻³ 3,6441 10 ⁻⁴ 3,6265 10 ⁻³ 3,6265 10 ⁻⁴ 3,6360 10 ⁻¹ 3,6380 10 ⁻¹ 3,6948 10 ⁻²	10002,4827154982 10002,4827365626 10002,4827386978 0fg 2,0949-10 ³ 1,7713-10 ⁻¹ 2,0050-10 ⁻³ 2,1059-10 ⁻³ 2,1059-10 ⁻³ 2,1054-10 ⁻⁶ 2,0949-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0955-10 ⁻⁸ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0 0 0 0 1 ₁ :	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻²² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 827) 6,2775 - 10 ⁶ 5,3083 - 10 ⁴ 6,1881 - 10 ² 6,2991 - 10 ² 6,3105 - 10 ¹ 6,2775 - 10 ⁻² 6,2771 - 10 ⁻²	10 ² 10 ³ 10 ³ 10 ³ 10 ⁴ 10 ⁶ 10 ⁷ 10 ⁸ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹³ 10 ¹⁴	229,991048026237 229,994689292966 229,995062373247 60°, 3,6225 · 10° 3,6341 · 10° 3,6440 · 10° 3,6440 · 10° 3,645 · 10° 3,625 · 10° 3,6225 · 10° 3,6225 · 10° 3,6225 · 10° 3,6225 · 10° 3,6225 · 10° 3,6225 · 10° 3,6235 · 10° 3,6235 · 10° 3,6248 · 10° 3,6948 · 10° 3,	10002,4827044481 10002,48272755184 10002,4827277682 0fg 2,0950-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ³ 2,1021-10 ⁻³ 2,1059-10 ⁻³ 2,1070-10 ⁻⁵ 2,2498-10 ⁻⁶ 2,0950-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0953-10 ⁻³ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹⁰ 0 0	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 879 6,2812 - 10 ⁴ 5,3111 - 10 ⁴ 6,1914 - 10 ³ 6,3025 - 10 ³ 6,3125 - 10 ³ 6,3125 - 10 ³ 6,3125 - 10 ³ 6,2813 - 10 ⁻⁴ 6,2813 - 10 ⁻⁴ 6,2813 - 10 ⁻⁴ 6,2808 - 10 ⁻⁵ 6,2833 - 10 ⁻⁶ 6,2835 - 10 ⁻⁶ 6,2835 - 10 ⁻⁷
10 ⁴ 10 ⁷ 10 ³ 10 ⁴ 10 ⁷ 10 ¹⁰	230,246373417548 230,246739825310 3,0252 - 10 ¹ 3,5787 3,6882 · 10 ⁻¹ 3,6441 · 10 ⁻² 3,6441 · 10 ⁻² 3,6441 · 10 ⁻² 3,6265 · 10 ⁻⁶ 3,6360 · 10 ⁻¹² 3,6948 · 10 ⁻¹³ 230,246736063268 230,246772327840	10002,4827154982 10002,4827365626 10002,4827386978 0fg 2,0949-10 ³ 1,7713-10 ⁻¹ 2,0050-10 ⁻³ 2,1059-10 ⁻³ 2,1059-10 ⁻³ 2,1054-10 ⁻⁶ 2,0949-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0955-10 ⁻⁸ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0 0 0 0 1 ₁ :	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻²² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 62775 - 10 ¹⁶ 5,3083 - 10 ¹⁴ 6,1881 - 10 ¹⁶ 6,2991 - 10 ¹⁶ 6,31021 6,4011 - 10 ⁻¹⁶ 6,2775 - 10 ⁻¹⁶	10 ² 10 ⁴ 10 ⁷ 10 ² 10 ³ 10 ⁴ 10 ⁷ 10 ⁸ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹⁵ 10 ¹⁶ 10 ¹⁷	229,991048026237 229,994689292966 229,995062373247 60°, 3,6225 · 10° 3,6341 · 10° 1 3,6400 · 10° 3 3,6403 · 10° 3 3,6403 · 10° 3 3,6225 · 10° 3	10002,4827044481 10002,48272755184 10002,4827277682 0fg 2,0950-10 ³ 1,7713-10 ⁻¹ 2,0650-10 ³ 2,1021-10 ³ 2,1059-10 ⁻³ 2,1070-10 ⁻³ 2,2498-10 ⁻⁶ 2,0950-10 ⁻⁷ 2,0949-10 ⁻⁸ 2,0955-10 ⁻⁸ 2,0918-10 ⁻¹⁰ 2,1828-10 ⁻¹¹ 0 0 0 1 1 10002,4827276134	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 820 6,2812-10 ⁶ 5,3111-10 ⁴ 6,1914-10 ³ 6,3025-10 ³ 6,3139-10 ⁴ 6,7461-10 ⁻¹ 6,2813-10 ⁻³ 6,2813-10 ⁻³ 6,2813-10 ⁻³ 6,2833-10 ⁻³
10 ⁶ 10 ⁷ 10 ³ 10 ⁴ 10 ⁵ 10 ⁶ 10 ⁶ 10 ⁶ 10 ¹⁰ 10 ⁰ 10 ⁰ 10 ⁰	230,246373417548 230,246739825310 3,0252 - 10 ¹ 3,5787 3,6382 · 10 ⁻¹ 3,6441 · 10 ⁻² 3,6441 · 10 ⁻² 3,645 · 10 ⁻⁴ 3,6265 · 10 ⁻⁶ 3,6263 · 10 ⁻¹² 3,6380 · 10 ⁻¹² 230,246736063268 230,246775954297	10002,4827154982 10002,4827365626 10002,4827386978 2,0949+10 ⁻¹ 1,7713+10 ⁻¹ 2,0650+10 ⁻² 2,1021+10 ⁻² 2,1059+10 ⁻² 2,1054+10 ⁻² 2,1054+10 ⁻² 2,1952+10 ⁻³ 2,0949+10 ⁻² 2,0949+10 ⁻² 2,0949+10 ⁻² 2,0949+10 ⁻² 2,0949+10 ⁻² 2,0949+10 ⁻² 2,0949+10 ⁻² 1,0955+10 ⁻³ 2,0918+10 ⁻¹⁰ 0 0 0 0 17 10002,4827388670 10002,4827388670 10002,4827388670	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻²² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 6.279 6.2775 - 10 ¹⁶ 5.3083 - 10 ⁴ 6.1881 - 10 ² 6.2991 - 10 ² 6.3105 - 10 ¹ 6.3105 - 10 ¹ 6.4011 - 10 ⁻¹ 6.2775 - 10 ⁻² 6.2775 - 10 ⁻³ 6.2774 - 10 ⁻⁴ 6.2775 - 10 ⁻³ 6.2771 - 10 ⁻⁸ 6.2957 - 10 ⁻⁷ 6.3330 - 10 ⁻⁸ 0 0 20744618,9878669 20744619,0506414 20744619,05069189	10 ² 10 ⁴ 10 ⁷ 10 ⁴ 10 ⁷ 10 ⁸ 10 ⁸ 10 ⁸ 10 ¹⁰ 10 ¹⁰ 10 ¹¹ 10 ¹² 10 ¹³ 10 ¹³ 10 ¹⁴ 10 ¹⁵ 10 ¹⁶ 10 ¹⁷ 10 ¹⁸ 10 ¹⁷ 10 ¹⁸ 10 ¹⁸ 10 ¹⁹ 10 ¹⁹ 10 ¹⁹	229,991048026237 229,994689292966 229,995062373247 607 3,6225 · 10 ⁻² 3,6341 · 10 ⁻¹ 3,6410 · 10 ⁻² 3,6411 · 10 ⁻¹ 3,6411 · 10 ⁻¹ 3,6411 · 10 ⁻¹ 3,6225 · 10 ⁻² 3,6225 · 10 ⁻² 3,6225 · 10 ⁻² 3,6225 · 10 ⁻² 3,6226 · 10 ⁻¹⁰ 3,6236 · 10 ⁻¹¹ 3,6948 · 10 ⁻¹² 229,994725518139 229,994725518139 229,99472518139	10002,4827044481 10002,48272755184 10002,4827277682 01° 2,0950+10° 1,7713+10°1 2,0650+10°2 2,1021+10°3 2,1059+10°4 2,1070+10°5 2,2498+10°10 2,0950+10°3 2,0950+10°3 2,0950+10°3 2,0949+10°10 2,0950+10°3 2,0918+10°10 0,000 0 0 17 10002,4827276134 10002,4827278438	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 52:0 6,2812 - 10 ⁴ 5,3111 + 10 ⁴ 6,3025 + 10 ³ 6,3139 + 10 ⁴ 6,3413 + 10 ³ 6,2813 · 10 ⁻² 6,2813 · 10 ⁻² 6,2833 · 10 ⁻² 6,2833 · 10 ⁻² 6,2833 · 10 ⁻² 6,2833 · 10 ⁻² 100800251,355179 100800251,4749792 100800251,474273
10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	230,246373417548 230,246739825310 3,0252 - 10 ⁻¹ 3,5287 3,6382 - 10 ⁻¹ 3,6448 - 10 ⁻² 3,6441 - 10 ⁻² 3,6441 - 10 ⁻² 3,645 - 10 ⁻³ 3,6265 - 10 ⁻³ 3,6380 - 10 ⁻³¹ 3,6380 - 10 ⁻³² 230,246736063268 230,246775954297 230,246775954297 230,246775954297	10002,4827154982 10002,4827365626 10002,4827386978 2,0949+10 ⁻¹ 1,7713+10 ⁻¹ 2,0650+10 ⁻² 2,1021+10 ⁻² 2,1059+10 ⁻³ 2,1054+10 ⁻³ 2,1059+10 ⁻³ 2,1952+10 ⁻³ 2,0949+10 ⁻³ 1,0918+10 ⁻¹⁰ 0 0 1,0002,4827388575 10002,4827388579 10002,4827388579	0,0999999998368 0,10000000009585 0,099999999922464 5m _H -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ -1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻²² 1,1217 · 10 ⁻³¹	20744612,0480015 20744618,3601214 20744619,0002277 6.27) 6.2775 + 10 ¹⁶ 5.3083 + 10 ⁴ 6.1881 + 10 ² 6.2991 + 10 ² 6.3105 + 10 ¹ 6.3125 6,4011 + 10 ⁻¹ 6,2775 + 10 ⁻² 6,2775 + 10 ⁻³ 6,2775 + 10 ⁻³ 6,2775 + 10 ⁻³ 6,2775 + 10 ⁻³ 6,2771 + 10 ⁻⁴ 6,2957 + 10 ⁻³ 6,2957 + 10 ⁻³ 6,3330 + 10 ⁻⁶ 0 20744618,9878669 20744619,0506414 20744619,0506418	10 ² 10 ⁴ 10 ⁷ 10 ⁴ 10 ⁷ 10 ⁸ 10 ⁸ 10 ⁸ 10 ¹⁰	229,991048026237 229,994689292966 229,995062373247 607 3,6225 · 10 ⁻² 3,6341 · 10 ⁻¹ 3,6410 · 10 ⁻² 3,6411 · 10 ⁻¹ 3,6410 · 10 ⁻² 3,6225 · 10 ⁻² 3,6225 · 10 ⁻² 3,6225 · 10 ⁻² 3,6225 · 10 ⁻² 3,6226 · 10 ⁻² 3,6236 · 10 ⁻² 3,6236 · 10 ⁻¹ 3,6948 · 10 ⁻² 229,994729502908	10002,4827044481 10002,48272755184 10002,4827277682 607 2,0950+10 ⁻¹ 1,7713+10 ⁻¹ 2,0650+10 ⁻² 2,1021+10 ⁻² 2,1059+10 ⁻² 2,1070+10 ⁻² 2,2498+10 ⁻² 2,0950+10 ⁻² 2,0949+10 ⁻² 2,0955+10 ⁻² 2,0918+10 ⁻¹⁰ 2,1828+10 ⁻¹¹ 0 0 0 17 10002,4827276134 10002,4827278438 10002,4827278438	0,09999999938368 0,10000000009585 0,099999999922464 5m _N -8,0491 · 10 ⁻¹⁰ -1,0700 · 10 ⁻¹⁴ +1,3300 · 10 ⁻¹³ -1,4880 · 10 ⁻¹² 1,1217 · 10 ⁻¹³	100800244,409694 100800250,727051 100800251,401665 52,0 6,2812 - 10 ⁴ 5,3111 - 10 ⁴ 6,3025 - 10 ³ 6,3139 - 10 ⁴ 6,313 - 10 ⁻³ 6,2813 - 10 ⁻³ 6,2813 - 10 ⁻³ 6,2833 - 10 ⁻³ 100800251,355179 100800251,474273 100800251,424273
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Tab. C.4: Calculation of relativistic rocket velocity according to program Type: "A1", $v_0'=-100$ km/s, $\Delta m_0=0.009\%$, $t_0=10000$ s a) $v_0=0$, b) $v_0=369$ km/s, c) $v_0=2000$ km/s, d) $v_0=10000$ km/s

C.4 Relativistic rocket equation according to J. Akeret

Since 1946 there is an analytical solution for the relativistic rocket equation by J. Akeret [90]. For this not only the momentum theorem and the relativistic velocity addition are necessary (as with the numerical derivation presented so far) but additionally the energy conservation theorem is used.

For the derivation of the equations, formula symbols are used which differ from the original text but are consistent with the representations used so far in this presentation. Functions related to the outflowing gas used for causing thrust are denoted by f'; relations referring to the moving rocket, on the other hand, are shown without this label. The actual mass of the rocket is m, and dm' is the fraction of the propellant gas. This gives rise to the equations shown below.

a) The energy theorem provides:

$$d\left\{\frac{mc^2}{\sqrt{1-v^2/c^2}}\right\} = -\frac{dm' \cdot c^2}{\sqrt{1-v'^2/c^2}}$$
 (C.21)

b) the relation for momentum:

$$d\left\{\frac{mv}{\sqrt{1-v^2/c^2}}\right\} = \frac{dm' \cdot v'}{\sqrt{1-v'^2/c^2}}$$
 (C. 22)

c) the relativistic addition theorem:

$$v' = \frac{v_0' - v}{1 - \frac{v \cdot v_0'}{c^2}}$$
 (C. 23)

where v_0' has the meaning of the (constant) exit velocity of the gas relative to the rocket. The equations (C.21) and (C.22) can be further developed to

$$dm\frac{c^2}{\sqrt{1-v^2/c^2}} + mc^2 \cdot d\left\{\frac{1}{\sqrt{1-v^2/c^2}}\right\} = -dm'\frac{c^2}{\sqrt{1-v'^2/c^2}}$$
(C. 24)

$$dm\frac{v}{\sqrt{1-v^2/c^2}} + m\frac{dv}{\sqrt{1-v^2/c^2}} + mv \cdot d\left\{\frac{1}{\sqrt{1-v^2/c^2}}\right\} = dm'\frac{v'}{\sqrt{1-v'^2/c^2}} \quad (C.25)$$

For the solution, the values of v' and dm' must be eliminated. To do this, first in equation (C.24) in the term on the right-hand side the value for v' from equation (C.23) is inserted

$$\frac{c^2}{\sqrt{1 - \frac{v'^2}{c^2}}} = \frac{c^2}{\sqrt{1 - \frac{v_0' - v}{1 - v \cdot v_0' / c^2}}^2}
= \frac{c^2 - v_0' v}{\sqrt{1 - \frac{v^2}{c^2} - \frac{v_0'^2}{c^2} + \frac{v^2 v_0'^2}{c^4}}} = \frac{c^2 - v_0' v}{\sqrt{1 - \frac{v^2}{c^2}} \sqrt{1 - \frac{v_0'^2}{c^2}}}$$
(C. 26)

In the same way follows

$$\frac{v'}{\sqrt{1 - \frac{v'^2}{c^2}}} = \frac{v'_0 - v}{\sqrt{1 - \frac{v^2}{c^2}}\sqrt{1 - \frac{v'^2}{c^2}}}$$
(C. 27)

Equations (C.26) and (C.27) are substituted into Eq. (C.24) and (C.25), respectively, and these are resolved to dm' and equated. The result is:

$$m\left\{\frac{c^2 - vv_0'}{\sqrt{1 - v^2/c^2}}\right\} dv + mv_0'(c^2 - v^2) \cdot d\left\{\frac{1}{\sqrt{1 - v^2/c^2}}\right\} + dm\frac{v_0'(c^2 - v^2)}{\sqrt{1 - v^2/c^2}} = 0 \quad \text{(C. 28)}$$

The two differentials with the dependence on v must be unified and using the differential chain rule it follows

$$d\left\{\frac{1}{\sqrt{1-v^2/c^2}}\right\} = \frac{v}{c^2 \left\{1 - \frac{v^2}{c^2}\right\}^{3/2}} dv$$
 (C. 29)

After substituting in eq. (C.28) and separating the terms for mass and velocity, the final result is

$$\frac{dm}{m} = -\frac{dv}{v_0'(1 - v^2/c^2)} \tag{C.30}$$

The integration results in

$$ln(m) = -\frac{c}{2v_0'} ln \left\{ \frac{c+v}{c-v} \right\} + C$$
 (C. 31)

With the initial value for mass m_0 and the final value m the relativistic rocket equation according to J. Akeret arises

$$\frac{m}{m_0} = \left\{ \frac{1 - \frac{v}{c}}{1 + \frac{v}{c}} \right\}^{c/2v_0'} \tag{C.32}$$

or

$$\frac{v}{c} = \frac{1 - \left(\frac{m}{m_0}\right)^{2v_0'/c}}{1 + \left(\frac{m}{m_0}\right)^{2v_0'/c}}$$
(C. 33)

In Section 6.4.2, calculations from this equation are contrasted with the classical rocket formula of K. E. Tsiolkovsky and the numerical relations derived in this annex.