Na 2spocet: 35b., z toho 20/40b. z písemek.

Rozmērova analýza

$$\frac{\Delta m}{\Delta t} = \frac{\Delta m}{\Delta t} \left(\frac{5}{5}, 919 \right)$$

$$\left[\frac{am}{at}\right] = kg^{1}.s^{-1} = kg^{d}.m^{-3d}.m^{2\beta}.m^{3\beta}.m^{3\beta} = \left[g^{d}.S^{\beta}.g^{\gamma}\right]$$

Podle cé Jeckého článka: průřez díry průřez un
$$\frac{\Delta n}{\delta t} = konst. \, \beta \cdot \sqrt{g} \left(D - konst d \right)^{2}$$

$$2B = \frac{S}{2}$$



Ca7-1-1-1-2 1d B, ~ Jr 37r -27r

$$[P_{\mathcal{S}}] = P_{\mathcal{S}} = k_{\mathcal{S}} \cdot m \cdot S = k_{\mathcal{S}} \cdot m \cdot k_{\mathcal{S}} \cdot m \cdot S$$

$$[P_{\mathcal{S}}] = \frac{F}{c} = N \cdot m^{-2}$$

$$[P] = \frac{F}{S} = N \cdot m^{-2}$$

vsberte si 1 planckom jednotku:

Kinematika huotného bodu

$$N = \frac{d\vec{r}}{dt}$$

$$\vec{a} = \frac{d\vec{v}}{dt} = \frac{d^2\vec{v}}{dt}$$

$$\frac{d\vec{r}}{dt} = \frac{dv}{dt} \cdot \vec{e}_v + v \frac{d\vec{e}_v}{dt}$$

$$\frac{dv}{dt} \neq 0 \longrightarrow konst. \Rightarrow 3 \neq 0 \text{ rownowinne } zvschleps$$

$$= 0 \longrightarrow volnowins polyb$$
a) rownowing polyb primozery

$$N = konst.$$

$$V = \frac{ds}{dt} \Rightarrow ds = v. dt / \int_{s_0}^{s} \int_{t_0}^{t}$$

$$S - s_0 = v(t - t_0)$$

$$S(t) = s_0 + v(t - t_0)$$

B) considering zerochleng polyb

$$a = konst = \frac{dv}{dt}$$

$$dv = adt | \int$$

$$v(t) - v_0 = \int_{t_0}^{t} dt = a. (t - t_0)$$

$$v(t) = 16 + a(t - t_0)$$

b) ol=(c+N)Tp

$$T_{3n} = \left(1 - \frac{v}{c}\right)T_{v}$$

$$c.T_{V} - v.T_{V} = c.T_{P} + v.T_{P}$$

$$cT_{V} - cT_{P} = v.T_{P} + v.T_{V}$$

$$c(T_{V} - T_{A}) = v(T_{P} + T_{V})$$

$$\frac{C}{V} = \frac{\left(T_{V} + \overline{I}_{V}\right)}{\left(\overline{I}_{V} - \overline{I}_{P}\right)} - \frac{5}{C} = \frac{\left(T_{V} - \overline{I}_{P}\right)}{\left(\overline{I}_{P} + \overline{I}_{V}\right)}$$

$$T_{M} = \left(1 - \frac{T_{V} - \overline{I}_{P}}{\overline{I}_{P} + \overline{I}_{V}}\right) \cdot \overline{I}_{V} = \frac{2 \cdot \overline{I}_{V} \cdot \overline{I}_{P}}{\overline{I}_{V} + \overline{I}_{P}}$$

$$T_{M} = \frac{2 \cdot 8 \cdot 10 \cdot 64 \cdot 8}{14 \cdot 5 \cdot 8} = \frac{8 \cdot 10 \cdot 64 \cdot 8}{7 \cdot 10}$$

$$\frac{64 \cdot 8}{14 \cdot 5 \cdot 8}$$

$$\frac{64 \cdot 8}{14 \cdot 5 \cdot 8}$$

Planckova délka:

$$L_{p} \sim konst. \ c^{\alpha}. \ t^{\beta}. \ 6^{\gamma}$$

 $m^{3}.k_{9} \cdot s^{0} = m^{\alpha}. \ s^{-\alpha}. \ k_{9} \cdot m^{2\beta}. \ s^{-\beta}. \ k_{9} \cdot m^{3} \times . \ s^{-2\gamma}$
 $[L_{p}] = m^{\gamma}$

•
$$(£) = 0.5 = N.m.57 = (5.m.57)$$

• [6] =
$$N^{1}$$
 kg⁻² m² = $(kg^{-1}, m^{3}, 5^{-2})$
[F] = $m_{1}a^{2}$ kg² m² s⁻²

$$m: 7 = d + 2B + 3P$$

 $ky: 0 = B - P - P = B$
 $5: 0 = -d - B - ZP$

$$\begin{pmatrix} 1 & 2 & 3 & | 1 \\ -1 & -1 & -2 & | 0 \\ 0 & 1 & -1 & | 0 \end{pmatrix} \sim \begin{pmatrix} 1 & 2 & 3 & | 1 \\ 0 & 1 & 1 & | 1 \\ 0 & 1 & -1 & | 0 \end{pmatrix} \sim \begin{pmatrix} 1 & 2 & 3 & | 1 \\ 0 & 1 & 1 & | 1 \\ 0 & 0 & 2 & | 1 \end{pmatrix}$$

$$C^{\frac{3}{2}}$$
, $t^{\frac{3}{2}}$. $t^{\frac{3}{2}}$ = $t^{\frac{5}{2}}$

$$\frac{1}{12} = \frac{1}{2}$$

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Lp=1,676255. 20-36