1)
$$E_{11}$$
 2) D_{\perp} 3) B_{\perp} 4) H_{11} E_{γ} poula, nize je znamy, niech $T_{i} = \frac{E_{i}}{E_{\gamma}}$ $i \neq 1$

dla == 0

1)
$$E_{+}=E_{1}-E_{3}$$

+) $K_{2}E_{+}=K_{1}E_{2}+K_{1}E_{3}$ $\Longrightarrow \frac{m_{2}}{m_{1}}E_{4}=E_{2}+E_{3}$ $\Longrightarrow 2T_{2}=T_{4}\left(1+\frac{m_{2}}{m_{1}}\right)$ $\frac{T_{2}}{T_{3}}=\frac{m_{2}+m_{1}}{M_{2}-n_{1}}$
+) $K_{2}E_{+}=K_{1}E_{2}+K_{1}E_{3}$ $\Longrightarrow \frac{m_{2}}{m_{1}}E_{4}=E_{2}+E_{3}$ $\Longrightarrow 2T_{3}=T_{4}\left(\frac{m_{2}}{m_{1}}-1\right)$ $\frac{T_{3}}{T_{3}}=\frac{m_{2}+m_{1}}{M_{2}-n_{1}}$

olla z=d

4)
$$kE_1e^{ikol}=k_1E_2e^{ik_1ol}+k_1E_3e^{-ik_1ol}\Rightarrow \frac{1}{n_1}e^{ikol}=T_2e^{ik_1ol}+T_3e^{-ik_1ol}$$

$$\frac{1}{m_1}\left(T_2e^{ilmd}-T_3e^{-ilmd}\right)=T_2e^{ilmd}+T_3e^{-ilmd}$$

$$=T_2e^{ilmd}+T_3e^{-ilmd}$$

$$T_{2}\left(\frac{2}{m_{1}}-1\right)e^{ik_{1}l_{2}l_{3}}=T_{3}\left(1+\frac{1}{n_{1}}\right)e^{-sk_{1}l_{3}l_{3}}$$

$$\frac{T_2}{T_3} = \frac{1+m_1}{1-m_2} e^{-2ik_2 ol}$$

$$\frac{1+n_1}{1-n_2}e^{-2ik_2d} = \frac{n_2+n_1}{n_2-n_2}$$

1)
$$e^{-2\pi |x_1|} = 1$$

$$\frac{1+n_1}{1-n_2} = \frac{n_2+n_1}{n_2-n_2}$$

$$\frac{7+m_1}{m_2-7}=\frac{m_2+m_2}{m_2-n_1}$$

$$\Rightarrow n_1 = \sqrt{n_2}$$

$$-2ik_{1}d=i\pi(2m+1)$$
 $d=\frac{\lambda}{\eta_{1}}(\frac{1}{4}+\frac{\eta_{1}}{2})$

$$\frac{4d}{\lambda_7} = (1m+7)$$

$$d = \frac{\lambda}{m_2} \left(\frac{1}{4} + \frac{m}{2} \right)$$

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