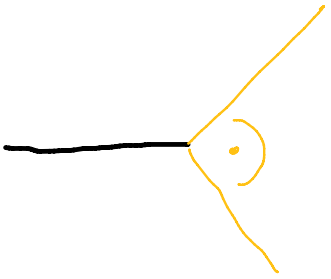
4.7

Tuesday, November 1, 2022 12:45 PM

	P_{przed}	P_{po}
E	$\sqrt{m_H^2 c^4 + p^2 c^2}$	$E_1 + E_2$
$\vec{P}$	P	$\vec{P}_1 + \vec{P}_2$



$$\Rightarrow m_{INV}^2 c^4 = m_H^2 c^4 + p^2 c^2 - p^2 c^4 = (E_1 + E_2)^2 - (\vec{p}_1 + \vec{p}_2)^2 c^2$$

$$m_H^2 c^4 = E_1^2 + 2E_1E_2 + E_2^2 - E_1^2 - E_2^2$$

$$E_2 = \frac{(m_H c^2)^2}{2E_1} \quad \checkmark$$