1.

MOMENTUM CONSERVATIONS @ EACH VERTEX

$$C_1 = C_2 + K_2 \qquad (1)$$

USE (1,1111) TO GET (PI+P2) ON THE LHS:

$$P_1 + P_2 + g_2 = g_1 + k_1 + k_3$$
(1) + (111)

2

cons of apmentum:

MUON FRAME P= (Mm, 5)

$$K_1 = (E_e, \vec{E})$$
 $K_2 = (E_K, \vec{F})$
 $E_0 = \sqrt{|\vec{F}|^2 + m_e^2}$
 $E_0 = |\vec{F}| + m_e^2$
 $E_0 = |\vec{F}| + m_e^2$