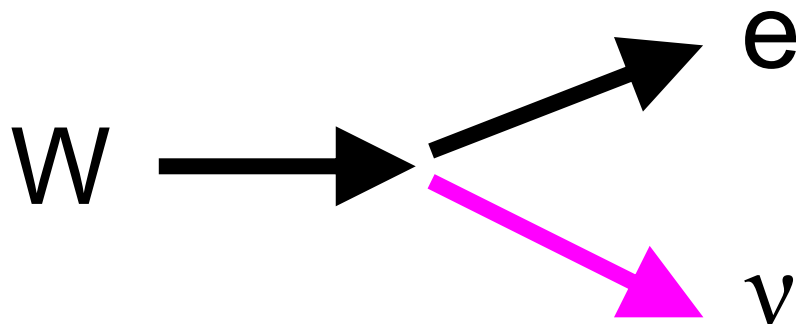


# Historical solution: (full!) W transverse mass

$$m_T^2 = m_e^2 + m_\nu^2 + 2(e_e e_\nu - \mathbf{p}_T^e \cdot \mathbf{p}_T^\nu)$$



$$e_e = \sqrt{m_e^2 + p_{Te}^2}$$

$$e_\nu = \sqrt{m_\nu^2 + p_{T\nu}^2}$$

**!! NOT THIS !!**

$$m_T = \sqrt{2|\vec{P}_{Te}||\vec{P}_{T\nu}|(1 - \cos \mathcal{G})}$$

!! This is **NOT** the transverse mass !!