- Estimate the absolute TOF (target to hodoscope) using Geant4
- Geant4 is not necessary to calculate the TOF at first order. Knowing the distance and the momentum is enough. But:
 - Good exercise to debug geometry, and the primary generator
 - Good exercise to produce analysis scripts

Formula used:

$$TOF = \frac{L}{cp} \sqrt{m_p^2 + p^2}$$

L: distance target-front face of the paddle (m)

c: speed of light (m/s)

m_p: proton mass (MeV)

p: proton momentum (MeV)







