

# The $\Delta E$ -TOF detector of the FOOT experiment: experimental tests and Monte Carlo simulations



Presenter Esther Ciarrocchi, on behalf of the Pisa group of the FOOT collaboration

- Development and characterization of a **detector prototype**
- **Proton** and **carbon** ion beam irradiations
- **Time** (40-160 ps) and **energy** resolution (5-13%) measurement
- **Monte Carlo** model of the optical transport in the detector

