The ΔE-TOF detector of the FOOT experiment: experimental tests and Monte Carlo simulations

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- 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

![Measured time resolution](image1)

![Monte Carlo vs exp data](image2)