

Highlights

Goal: Study of a possible use of a GEM detector (GEMPix) as beam monitor in hadrontherapy

- High rate capability and Radiation hardness: high fluxes (10^8 particles/s) of carbon ions, protons, oxygen...
- Good spatial resolution: Beam diagnostic for daily quality controls and dosimetric measurements of treatment plans.

Instruments: Accurate investigation of the detector response

- Measurements at CNAO Centre
(Depth dose deposition, linearity, homogeneity)
- Geant4 simulation of the detector and the experimental setup

Results: Good agreement between simulation and data

- *Further experimental measurements at CNAO are going to be planned*
- *Ongoing simulation studies*

