



ARDENT MIDTERM MEETING

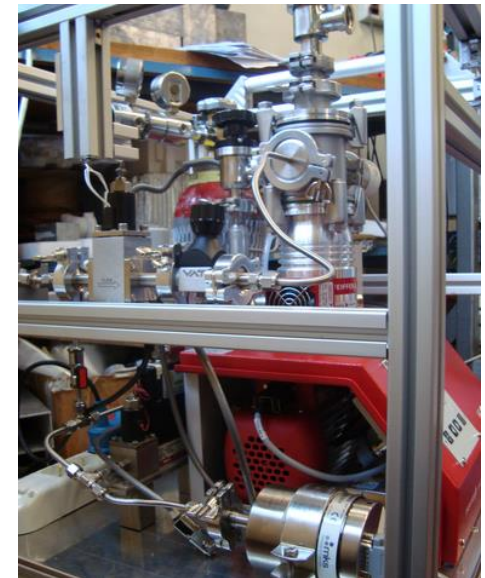
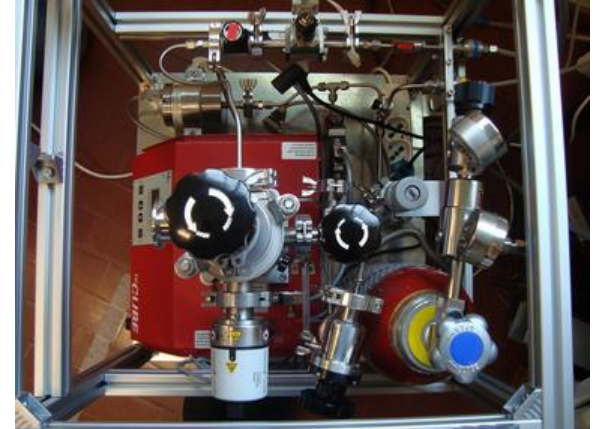
ELENA SAGIA - ESR14

Educational Activity

- MMND & IPCT 2012, Wollongong – Australia
 - Secondment in Uni & ANSTO
 - Oral presentation in MMND
- PSI Winter School for Protons
- INFN – LNL: Secondment & training on the construction of a gas vacuum system for a TEPC
- PhD & Italian Courses of Politecnico di Milano
- NEUDOS 12, Aix-en-Provence – France

Research Activity I

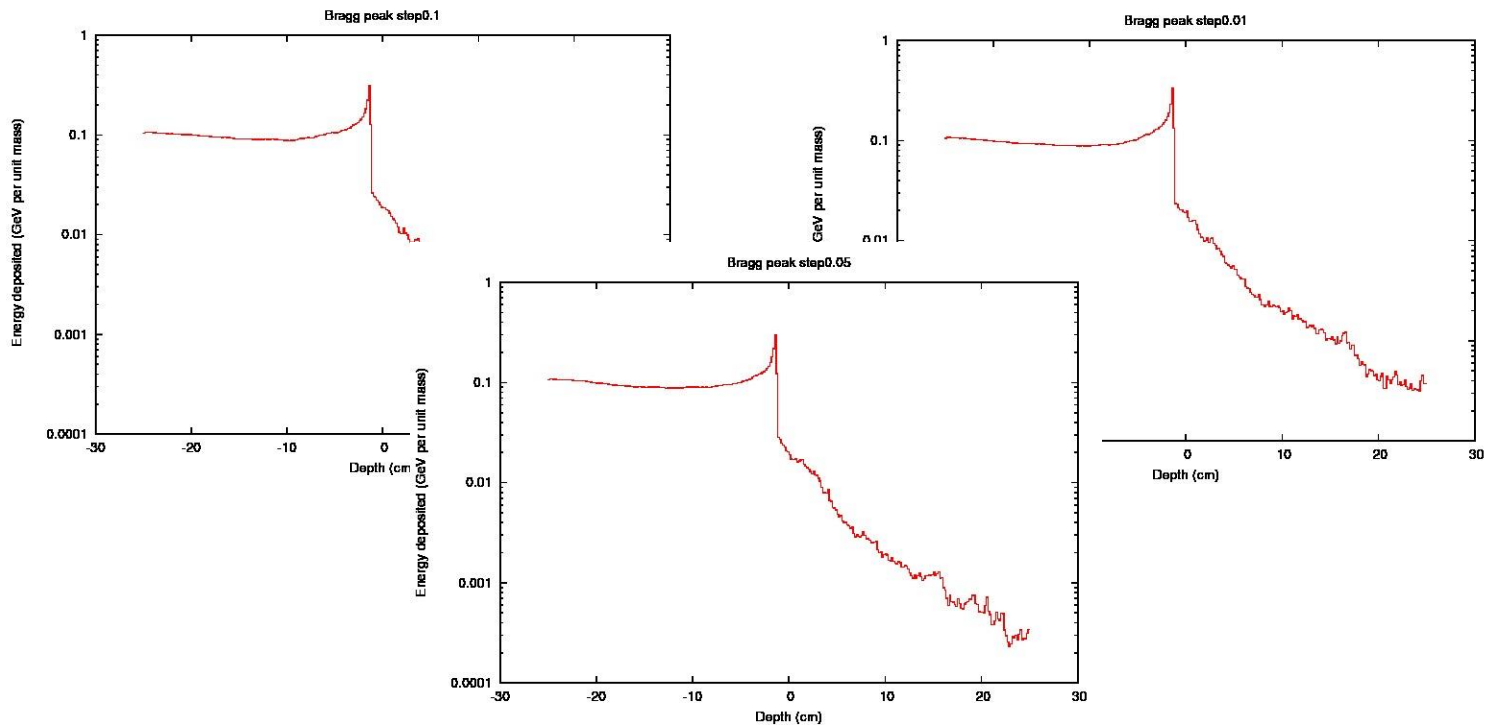
- Listing the components
- Searching for companies & asking for offers
- Final offer submitted
- Proceed to miniTEPC construction



Research Activity II

FLUKA simulations  ^{12}C 400MeV/u in PMMA

EMFFIX card: Sets the size of electron steps corresponding to a fixed fraction of the total energy



Current Activity

- FLUKA simulations including the Silicon microdosimeter for acquisition of microdosimetric spectra
 - Poster presentation for SSD17
- Measurements with alpha source for comparison with GEMPIX prototype & verification of its ability for microdosimetric use

Future Activity

- ✓ Measurements at HIMAC in collaboration with A. Rosenfeld
- ✓ Measurements at CNAO & CATANA
- ✓ Performance of more detailed simulations for each measurement campaign
- ✓ Construction of the miniTEPC



**Thank
you!**

Have a great summer!