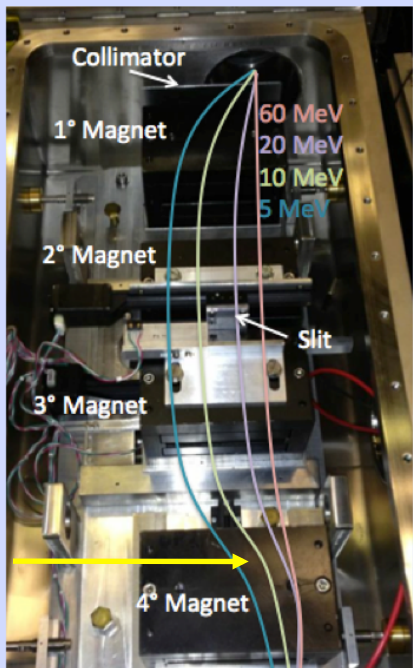




## ESS test experiment @ TARANIS (Queen's University of Belfast)



### INPUT BEAM

Ep: 1-10 MeV ( $\Delta E/E=100\%$ )

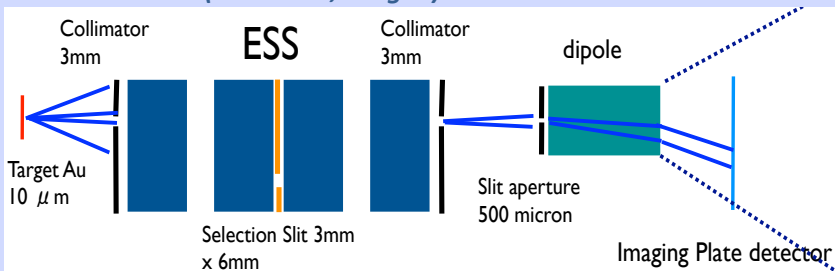


### SELECTED BEAM

Ep :  $4.5 \pm 0.3$  MeV  
( $\Delta E/E = 13\%$ )

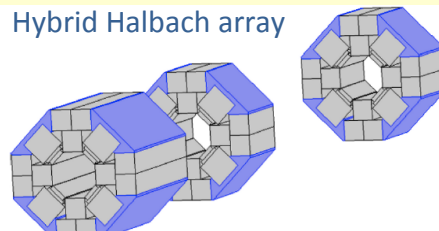
Ep :  $7.4 \pm 0.6$  MeV  
( $\Delta E/E = 16\%$ )

V. Scuderi et al. (SPIE 2015, Prague)



## Permanent Magnet Quadrupoles (PMQs) prototype characterization at LNS-INFN

### Hybrid Halbach array



**4 MQs**

Net bore 20 mm

Lengths: 2x80mm; 2x40mm

Gradients: 103 T/m; 100 T/m

