

Development of the Slowed Down Beam setup for HISPEC

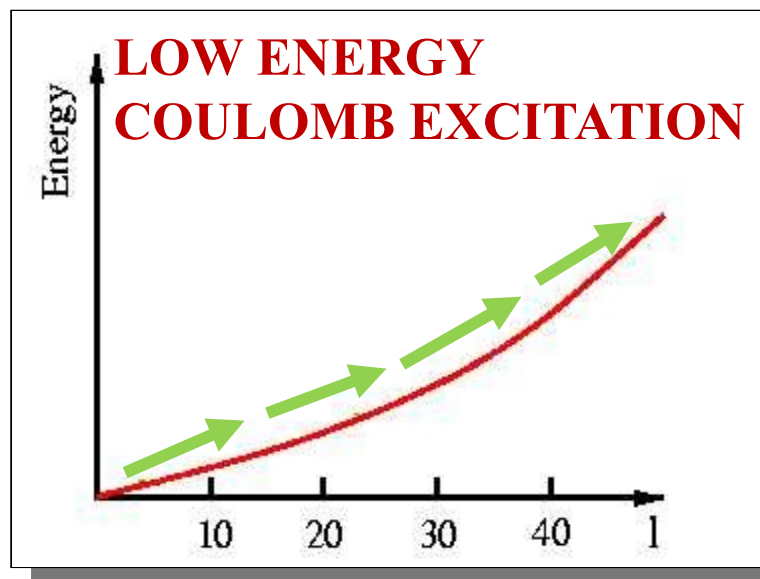
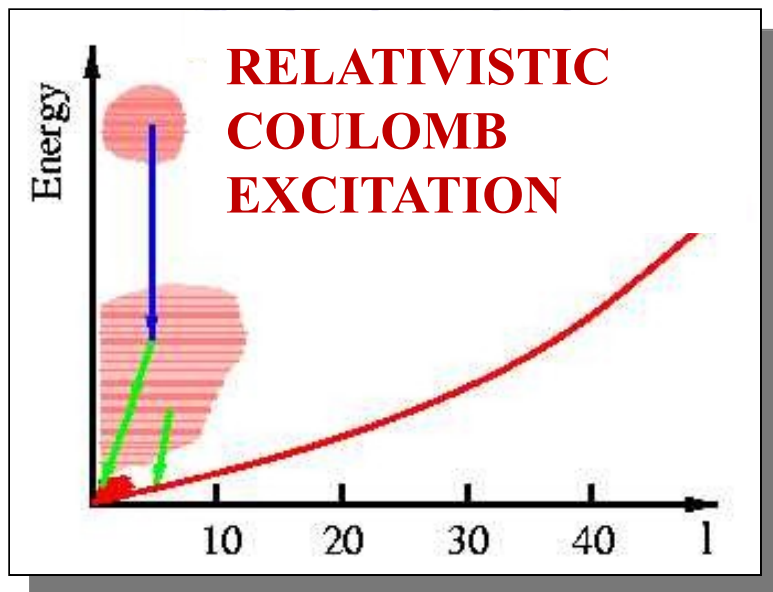
P.Boutachkov, F.Naqvi, M.Górska, J.Gerl, H.J.Wollersheim,
G.Pascovici, M.Pfeiffer
for the PRESPEC collaboration

Obtain *5 MeV/u* to *10 MeV/u* RIB to be used for secondary reaction studies at FRS / Super FRS

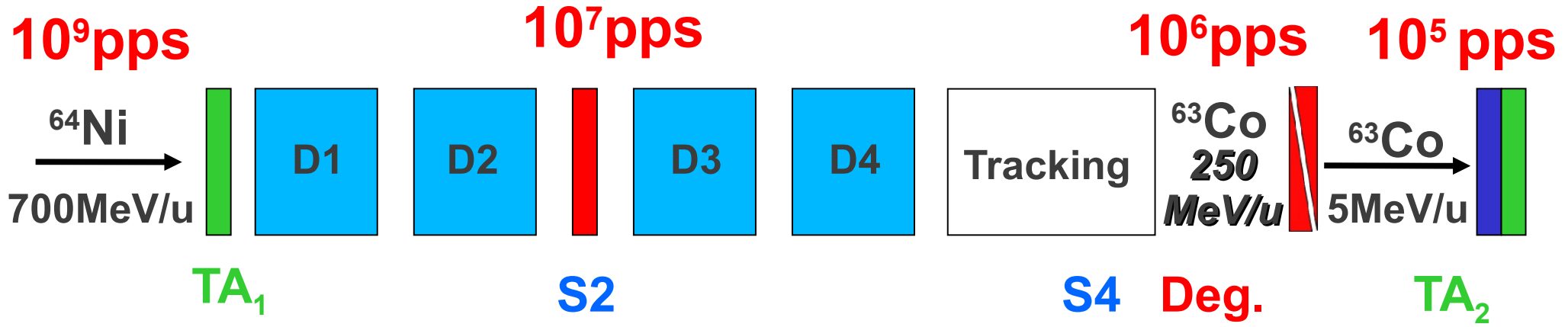
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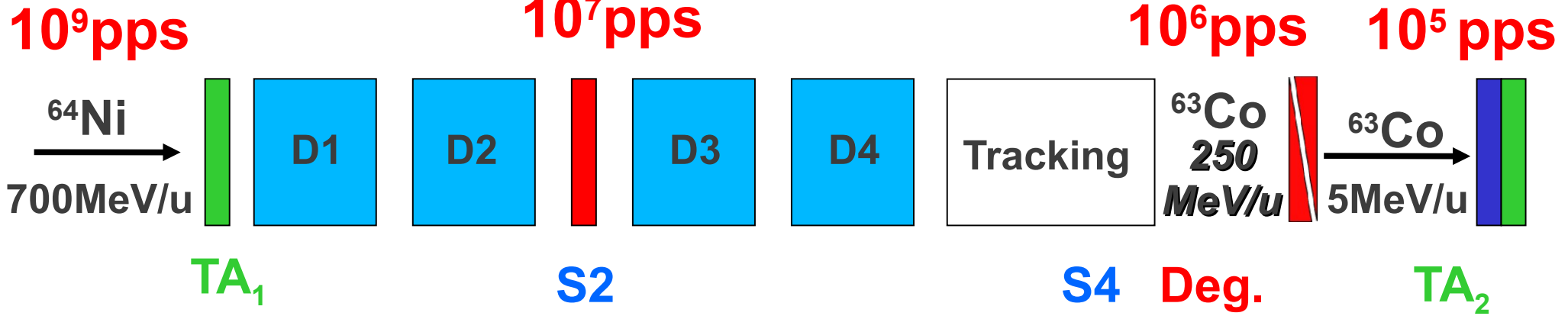
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The idea

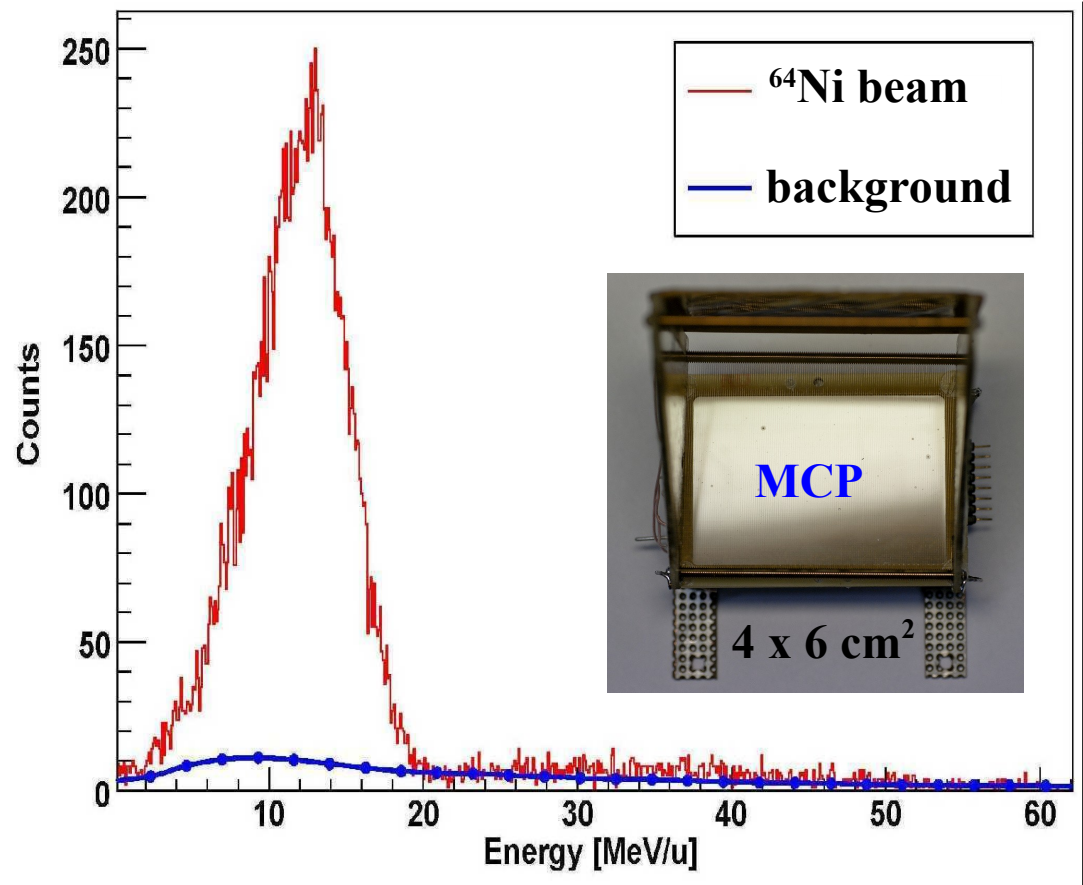


The idea



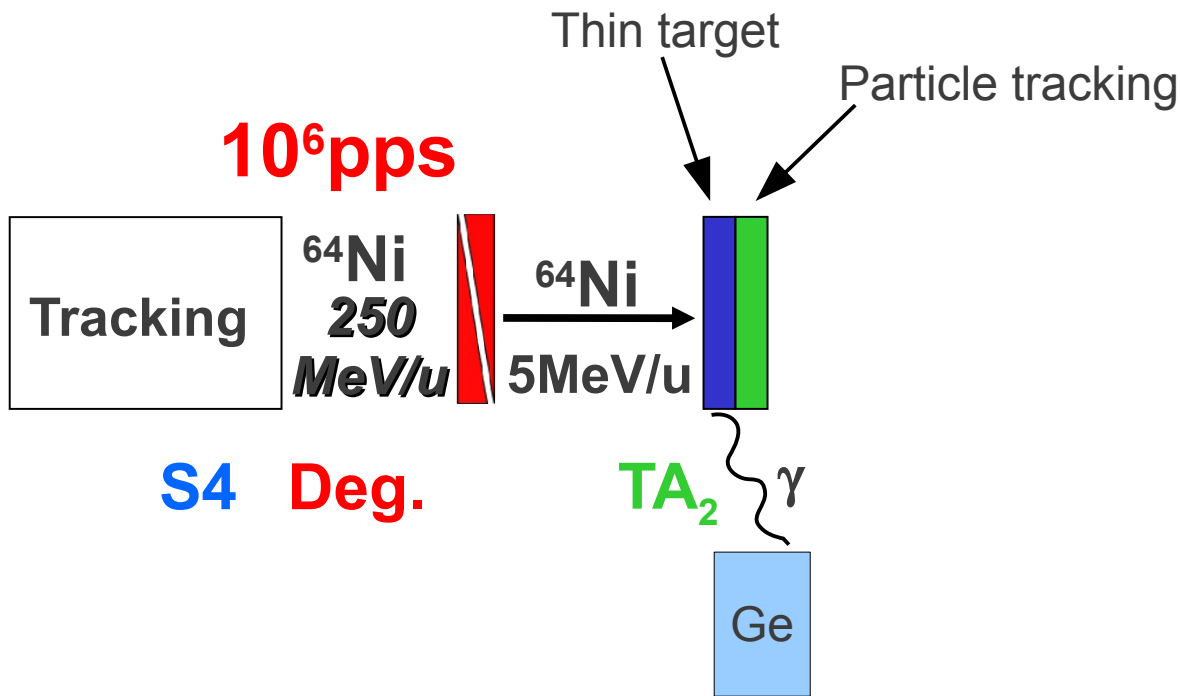
Test performed in 2008

- 80 % of the beam particles survived slowing down.
- Energy spread after slowing down to 10 MeV/u is 8 MeV/u. The predicted energy spread is 9 MeV/u.
- Contaminants due to the reactions in the degrader are of the order of 2%



F.Naqvi Ph.D. Thesis (Cologne, GSI)

Coulomb excitation with SDB experiment S419



M.Pfeiffer, University of Cologne

Accepted 10 days or **30 parasitic shifts**

Ready to run in 2012

- Possible location of the experiment: Cave C(**HTP**) or with the AGATA setup
- Preferred beams: a beam with known $B(E2;0^+ \rightarrow 2^+)$ for instance Ni, Ti, Cr
- Equipment needed for a HTP test:
Sci, at least 1 TPC, Degrader

If possible two runs of: 3+7 days