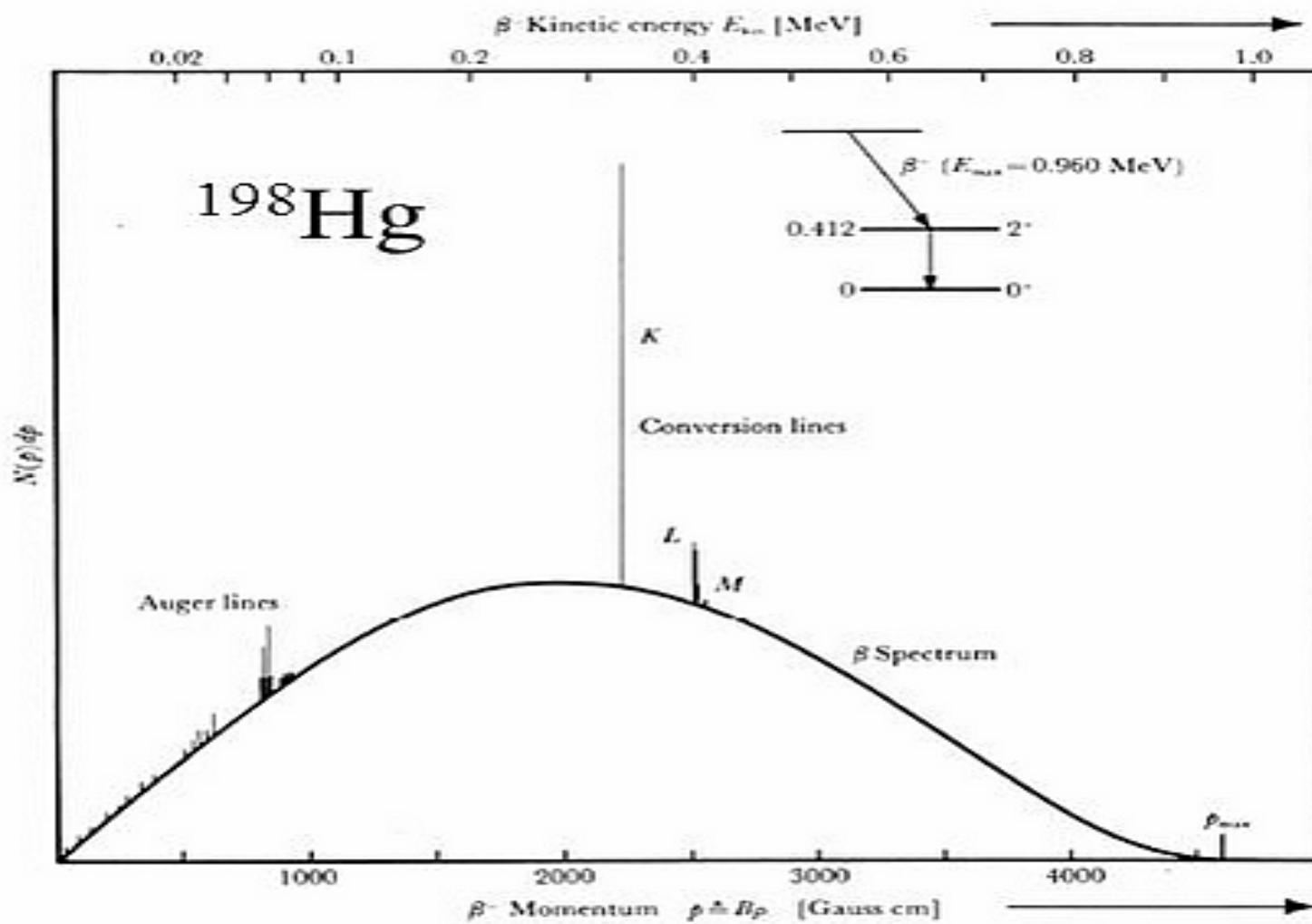
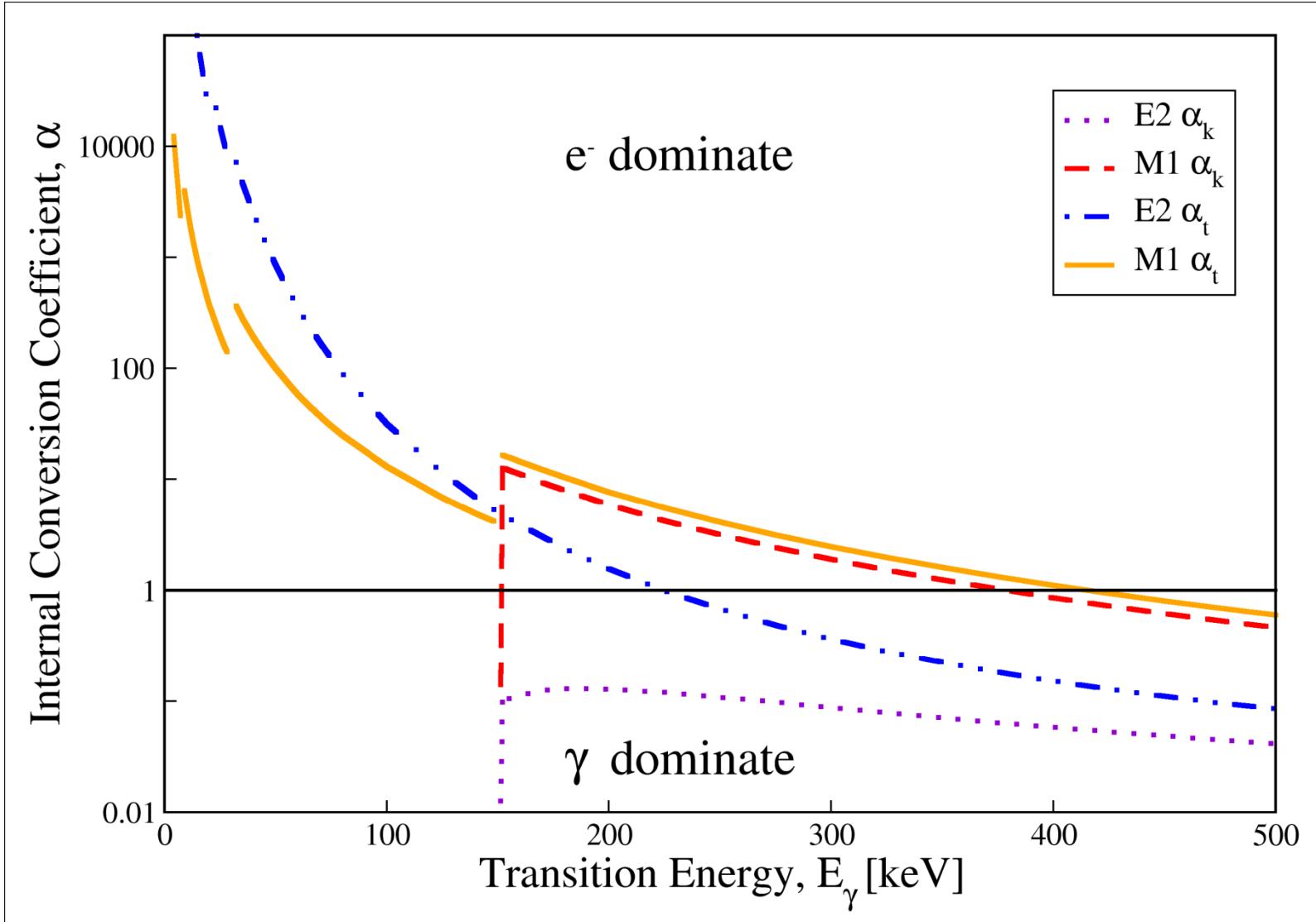


Internal Conversion

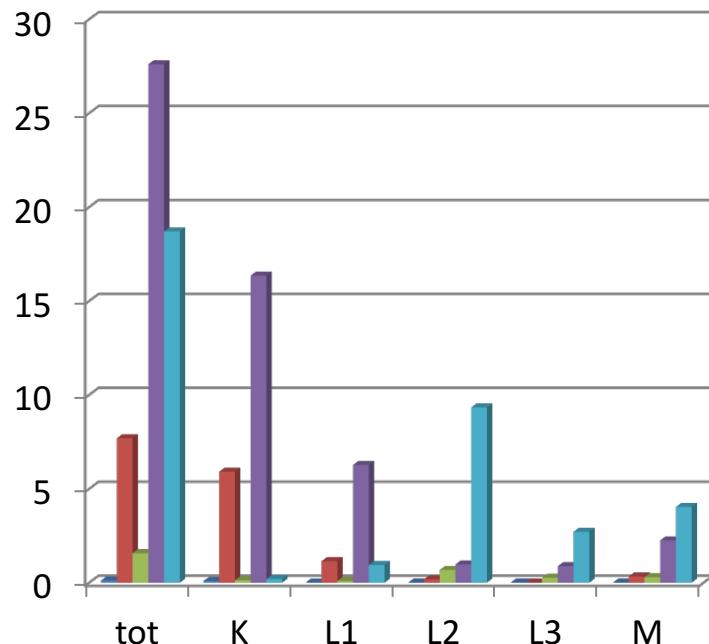


Internal Conversion

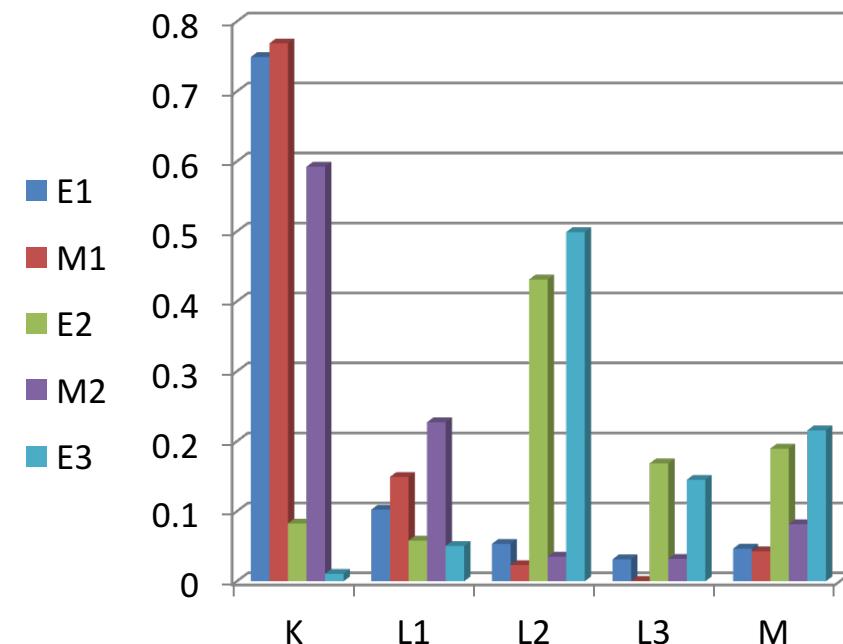


Conversion Coefficients

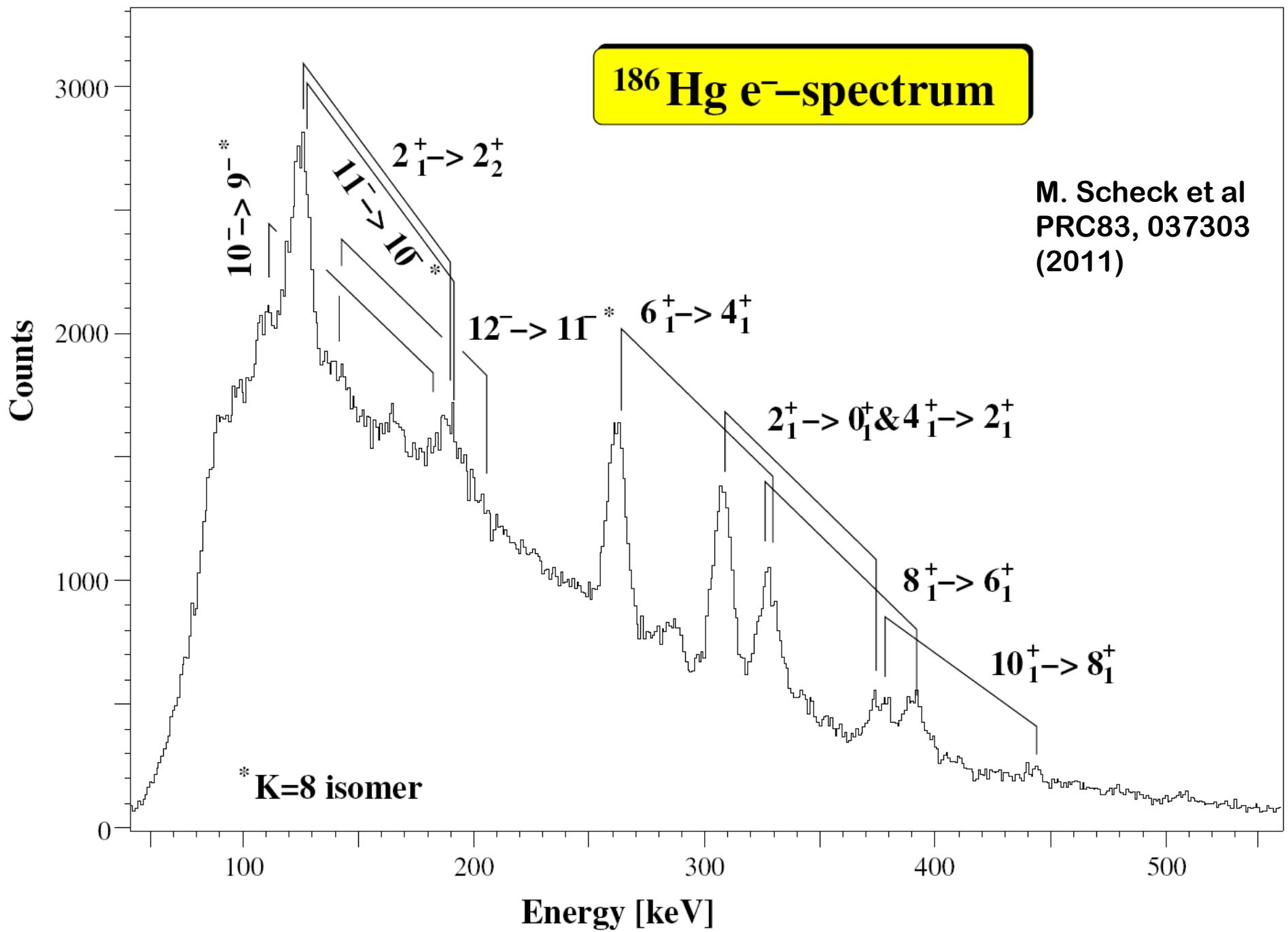
Absolute



Normalised

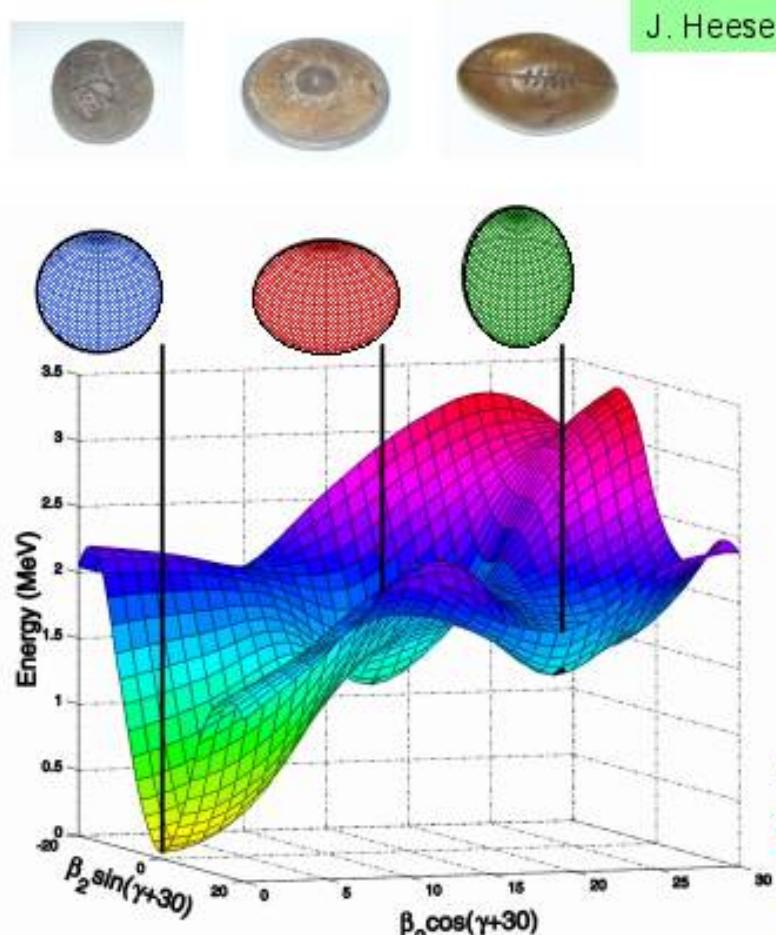


$E = 200 \text{ keV}$ $Z = 102$ BrICC (T. Kibédi et al., NIMA 589 (2008) 202)

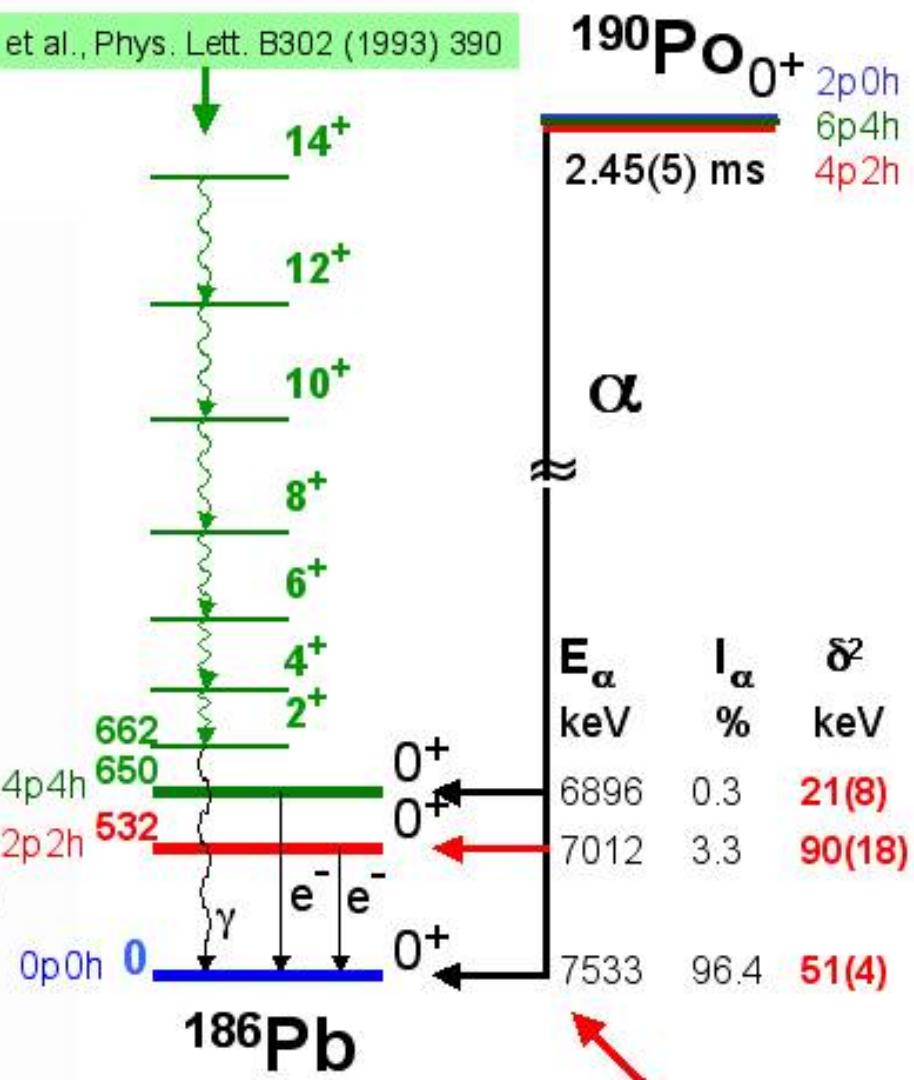


Shape coexistence

Different shapes, co-existing at low excitation energy



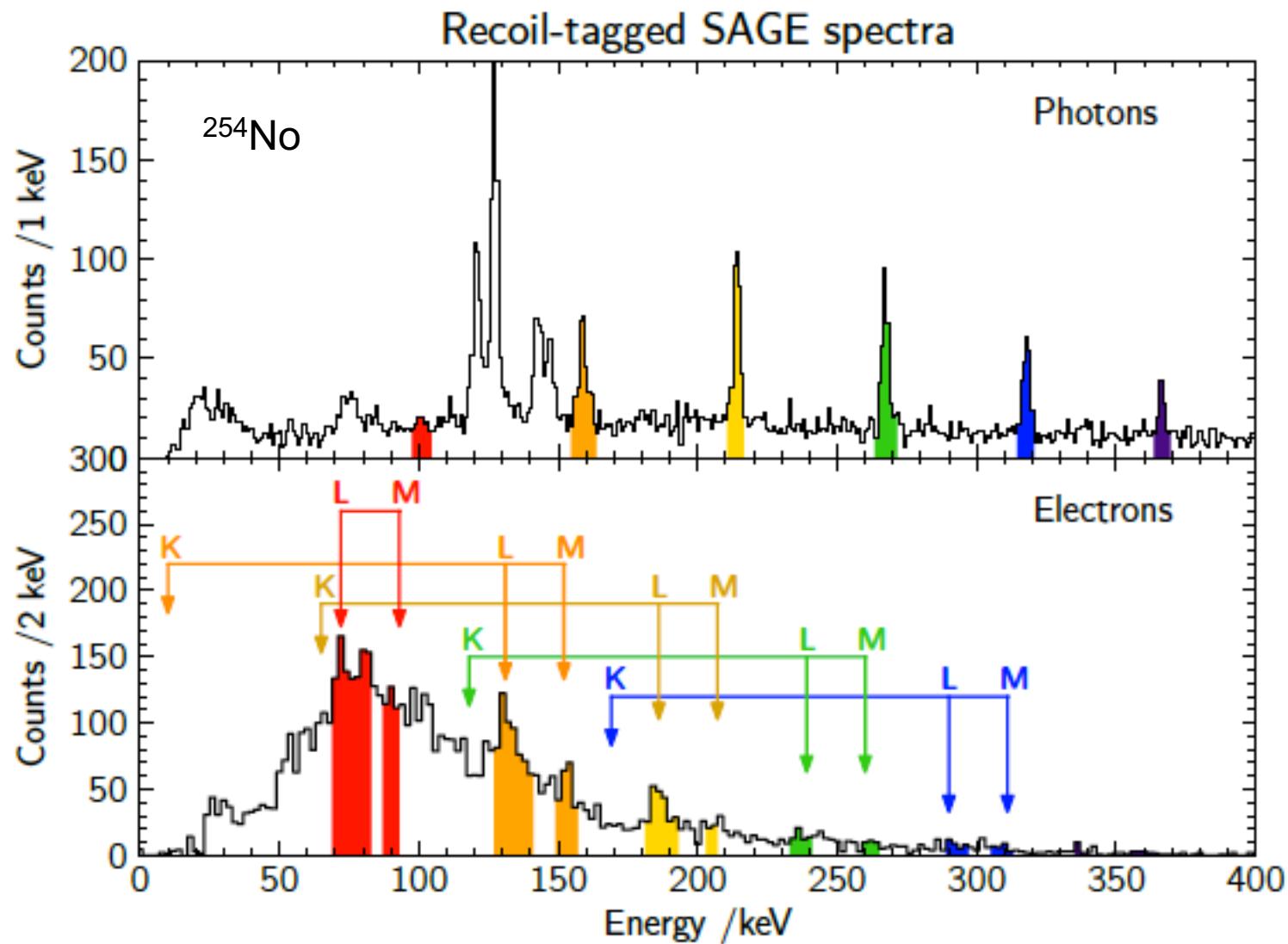
J. Heese et al., Phys. Lett. B302 (1993) 390



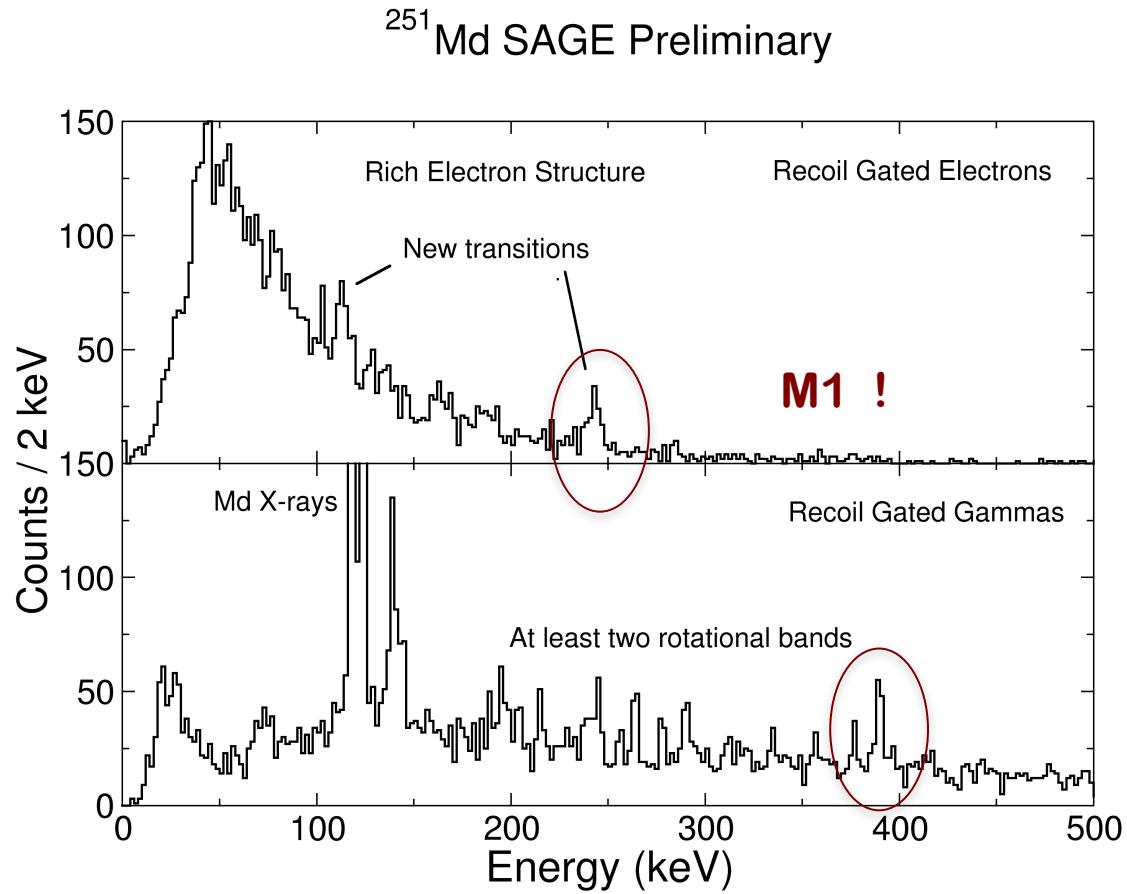
Potential Energy Surface for ^{186}Pb

A. Andreyev et al., Nature 405 (2000) 430

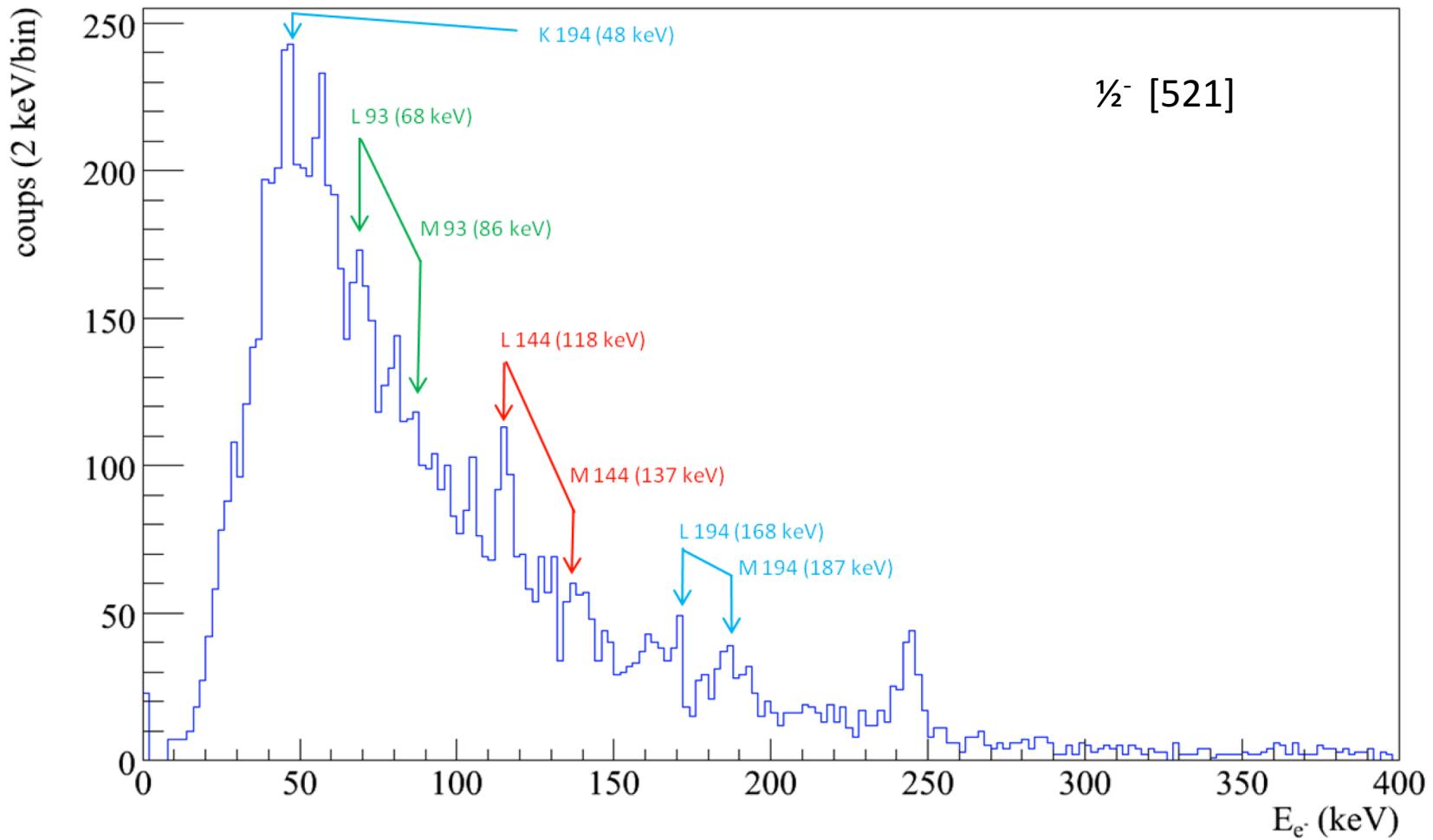
Electrons AND Gammas



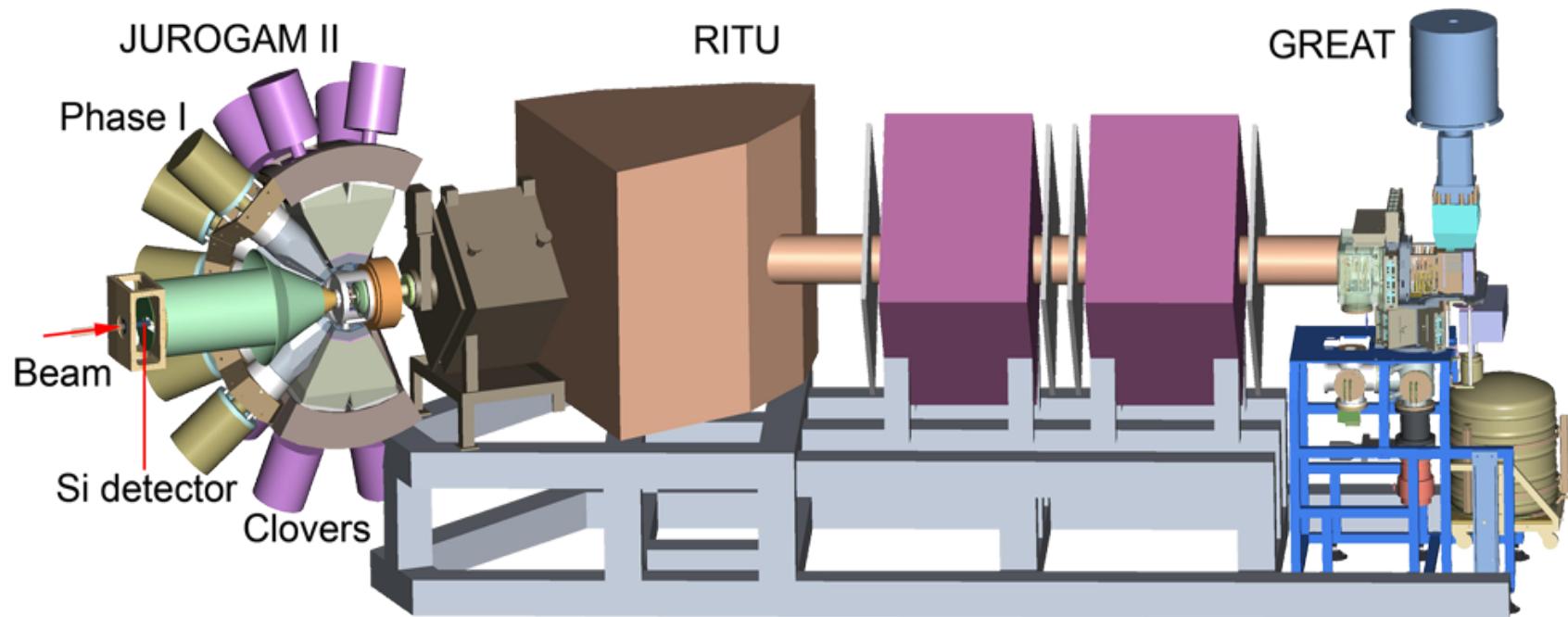
Highlight: ^{251}Md



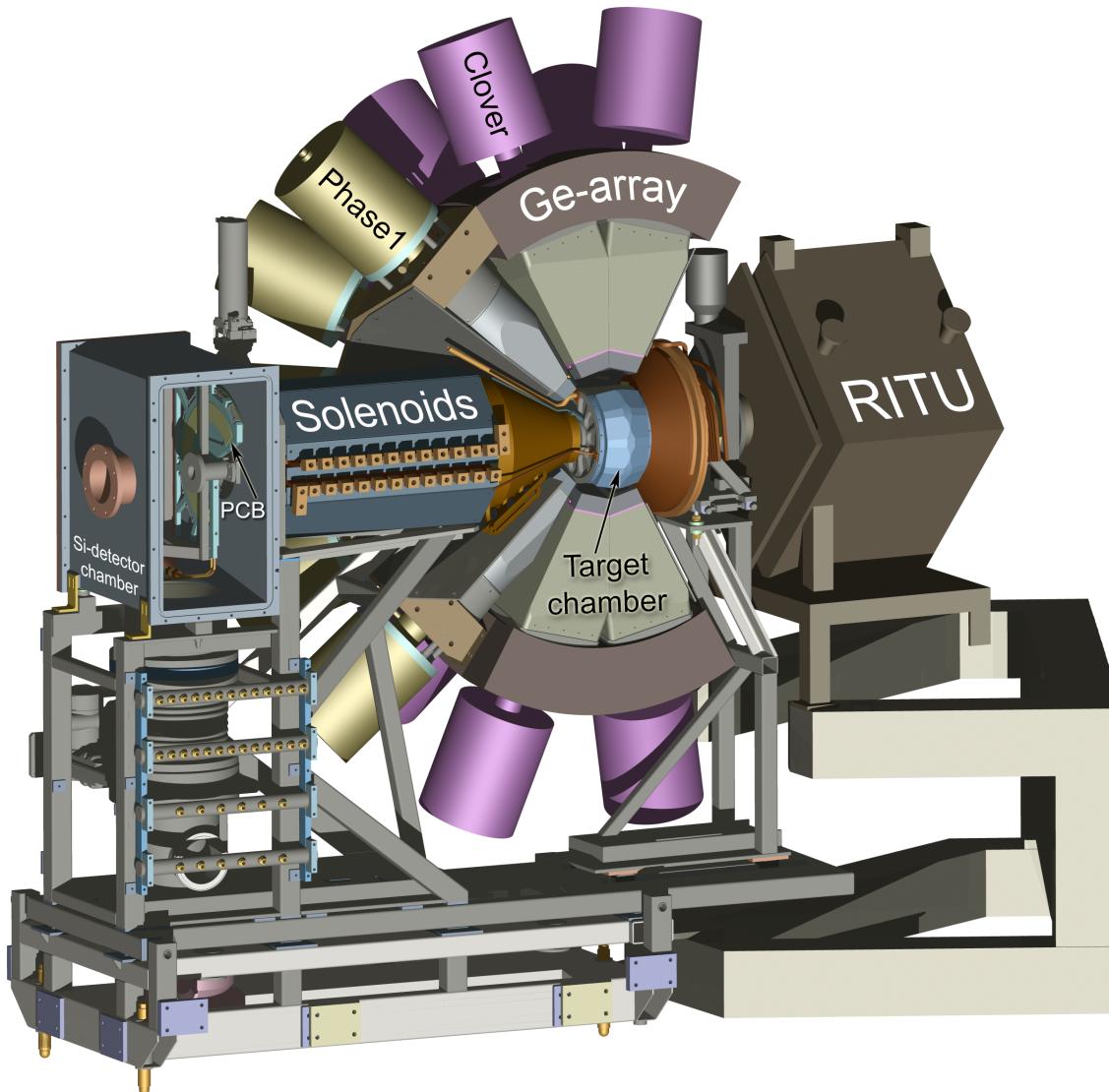
^{251}Md M1 transitions



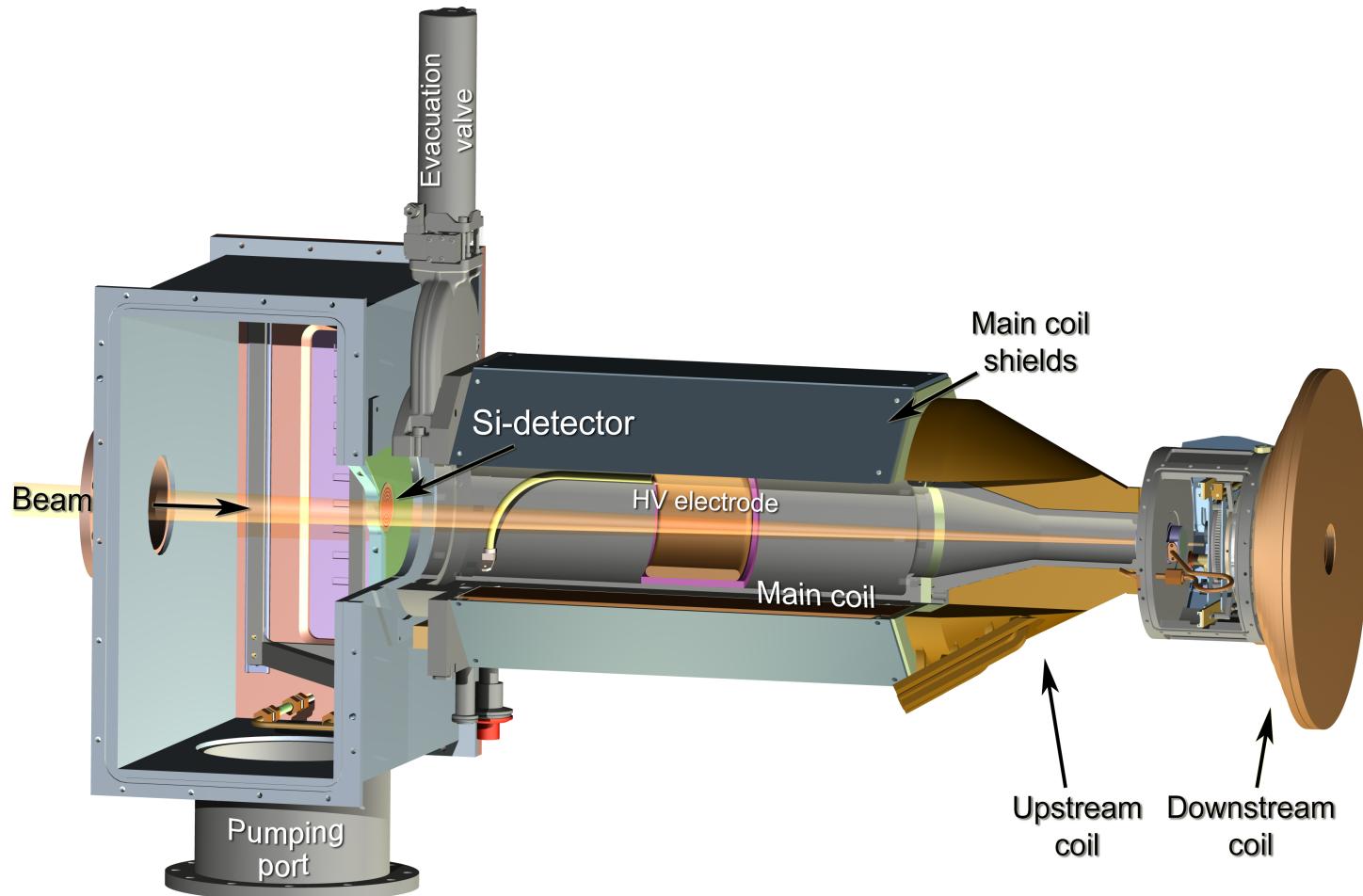
SAGE



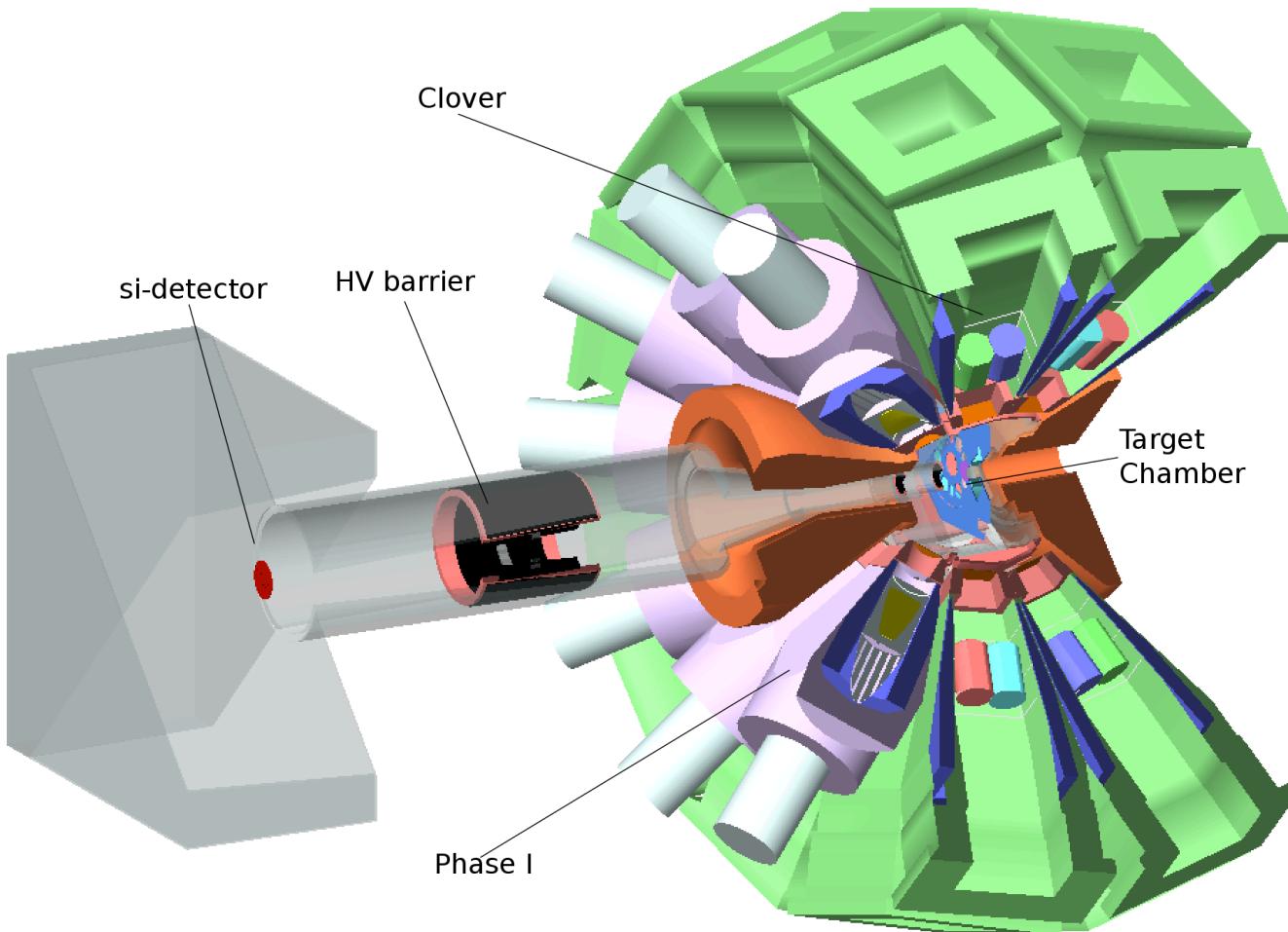
Overview



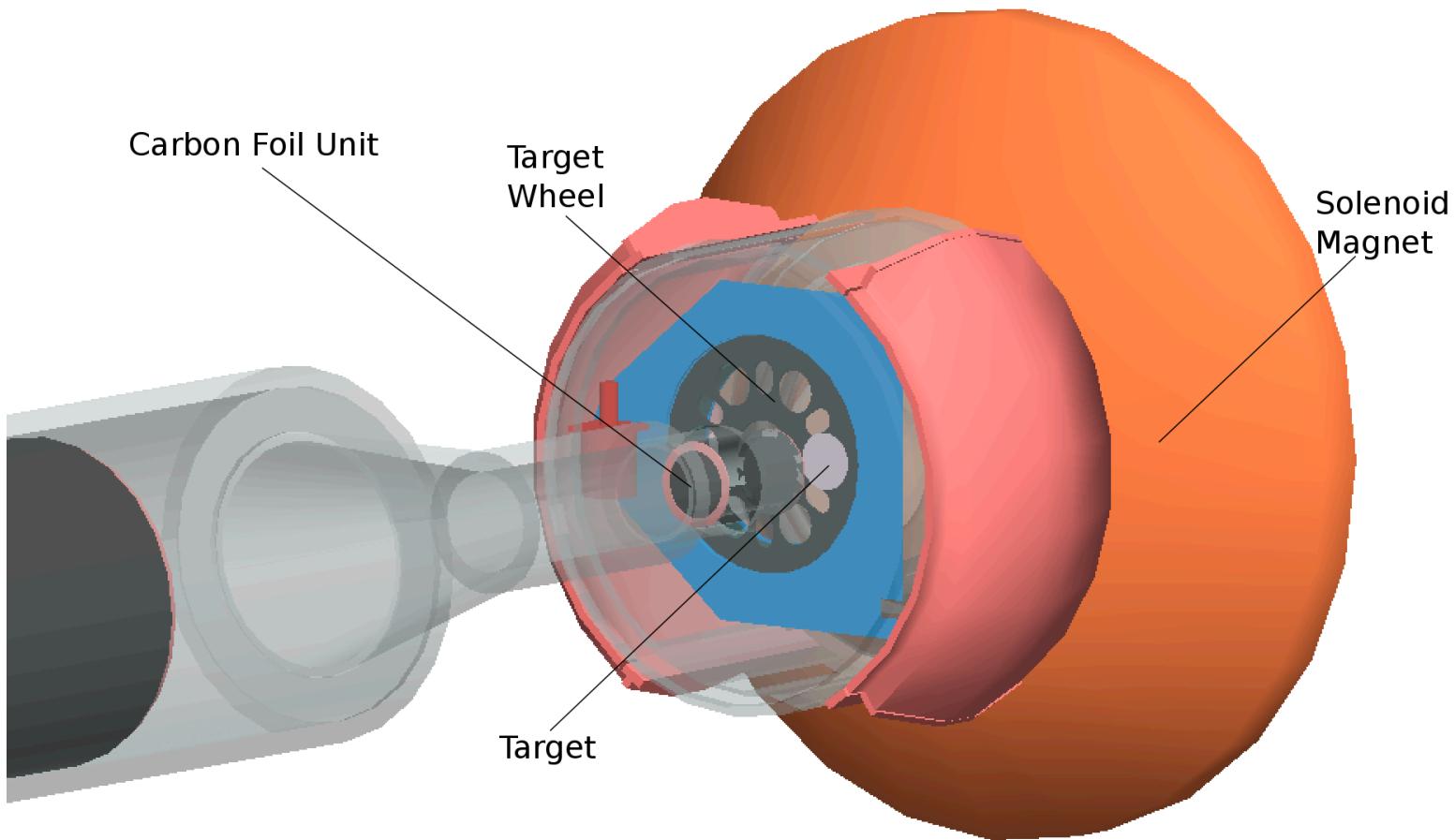
Electron Transport



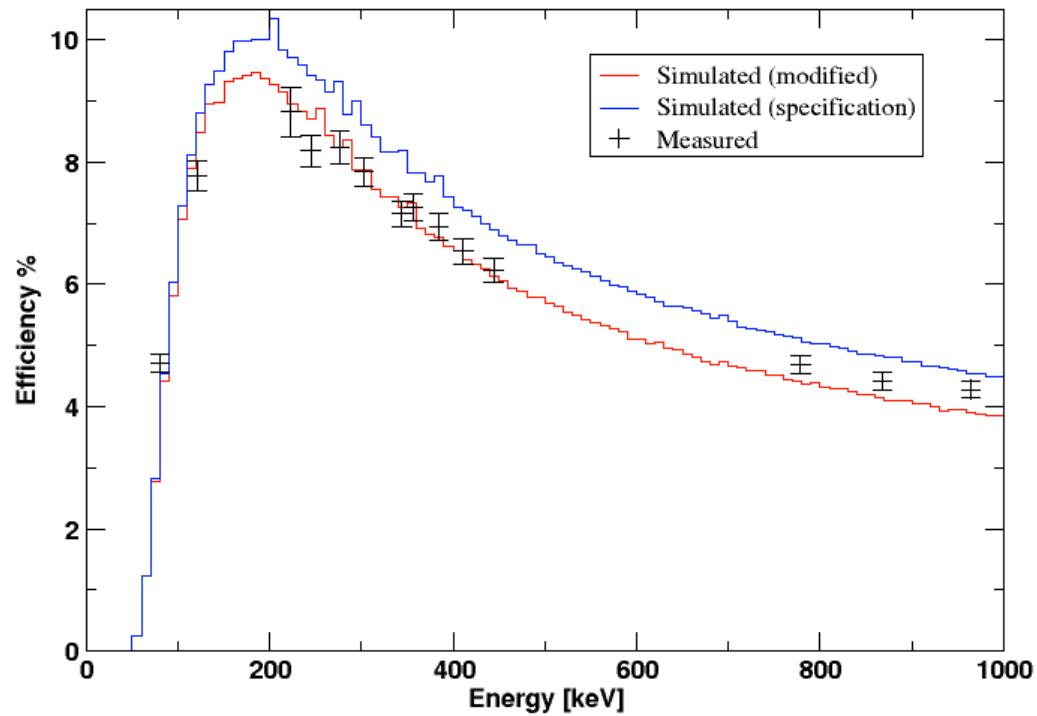
Full GEANT4 Simulation:



Target wheel



Efficiencies Gammas

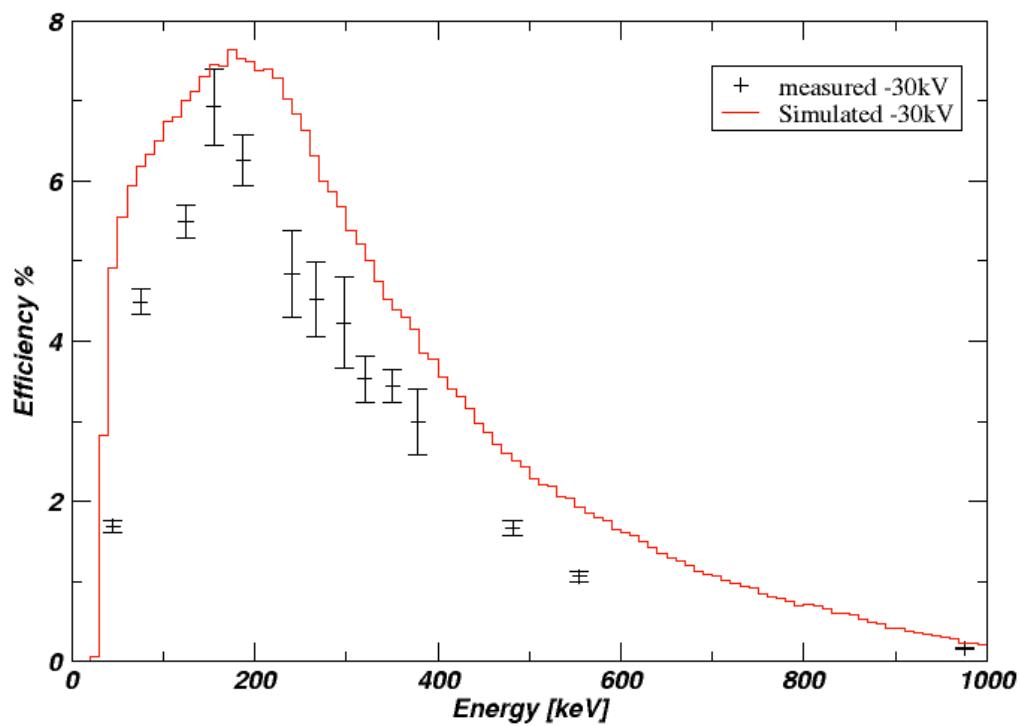


**Clover Addback
BGO Veto**

**Central contact?
Detector repairs?**

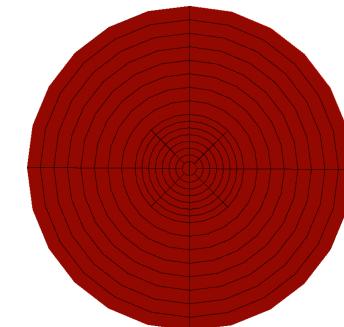
**Shape very good,
must normalise
to measured data!**

Efficiencies Electrons



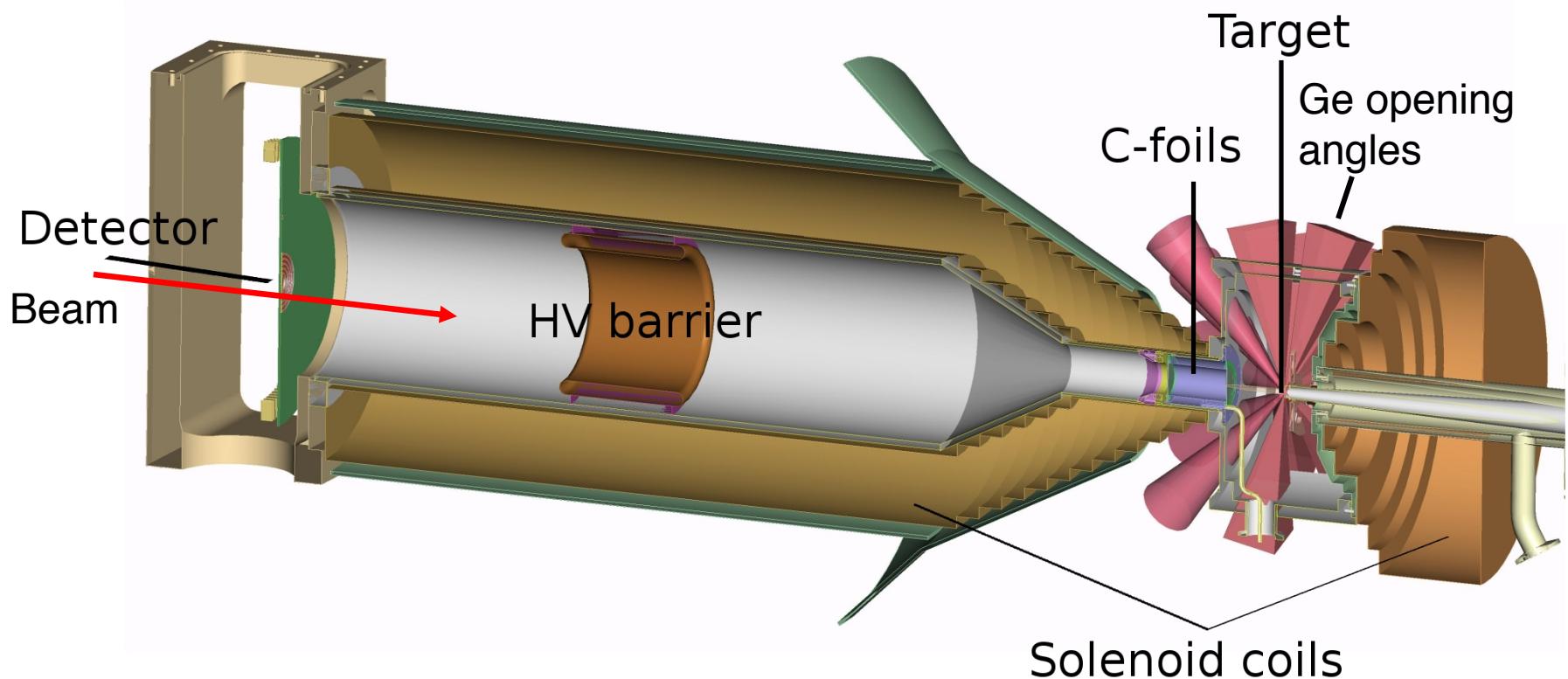
Electronic Cross Talk
Charge sharing

Shape very good,
must normalise
to measured data!

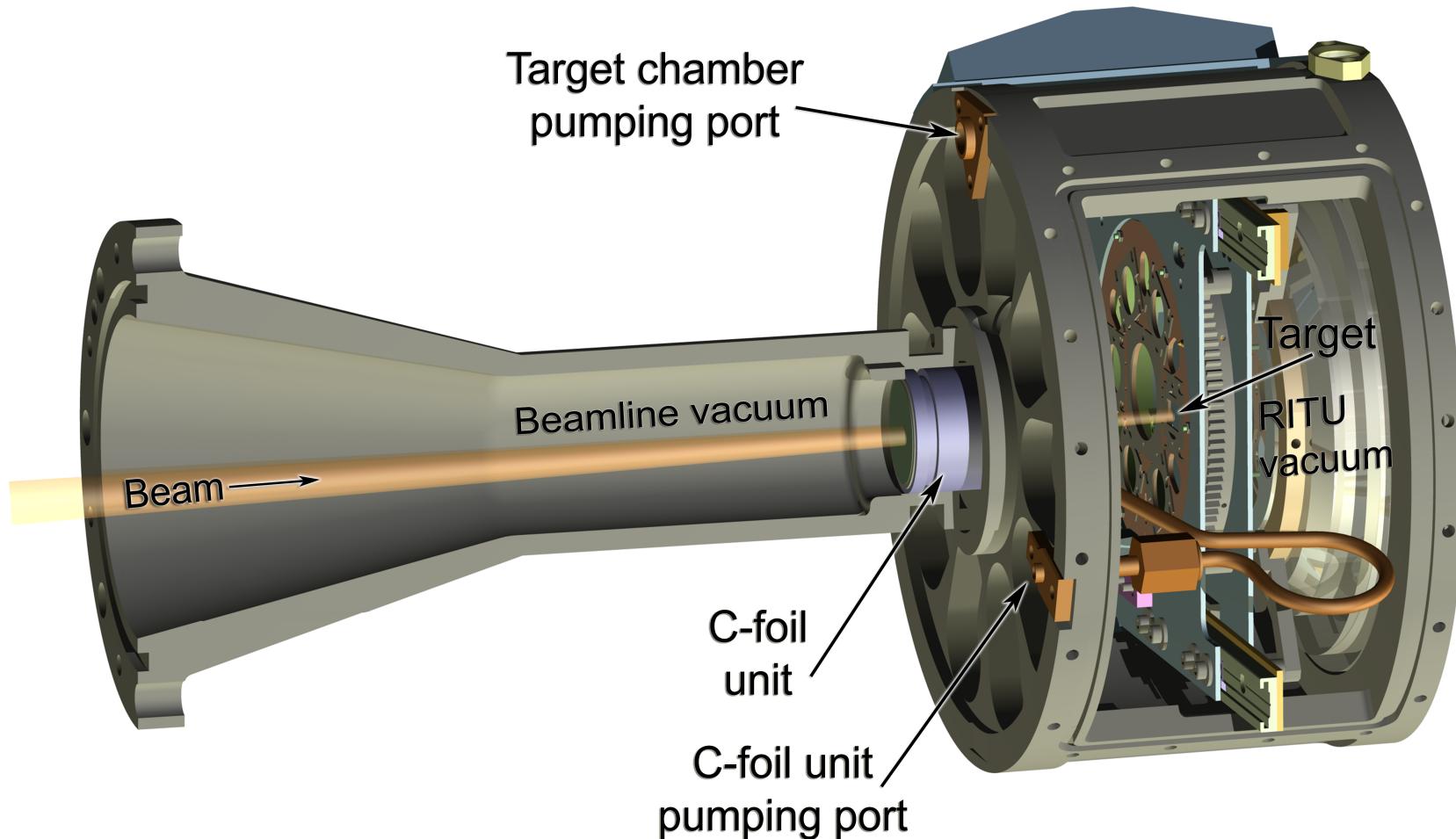


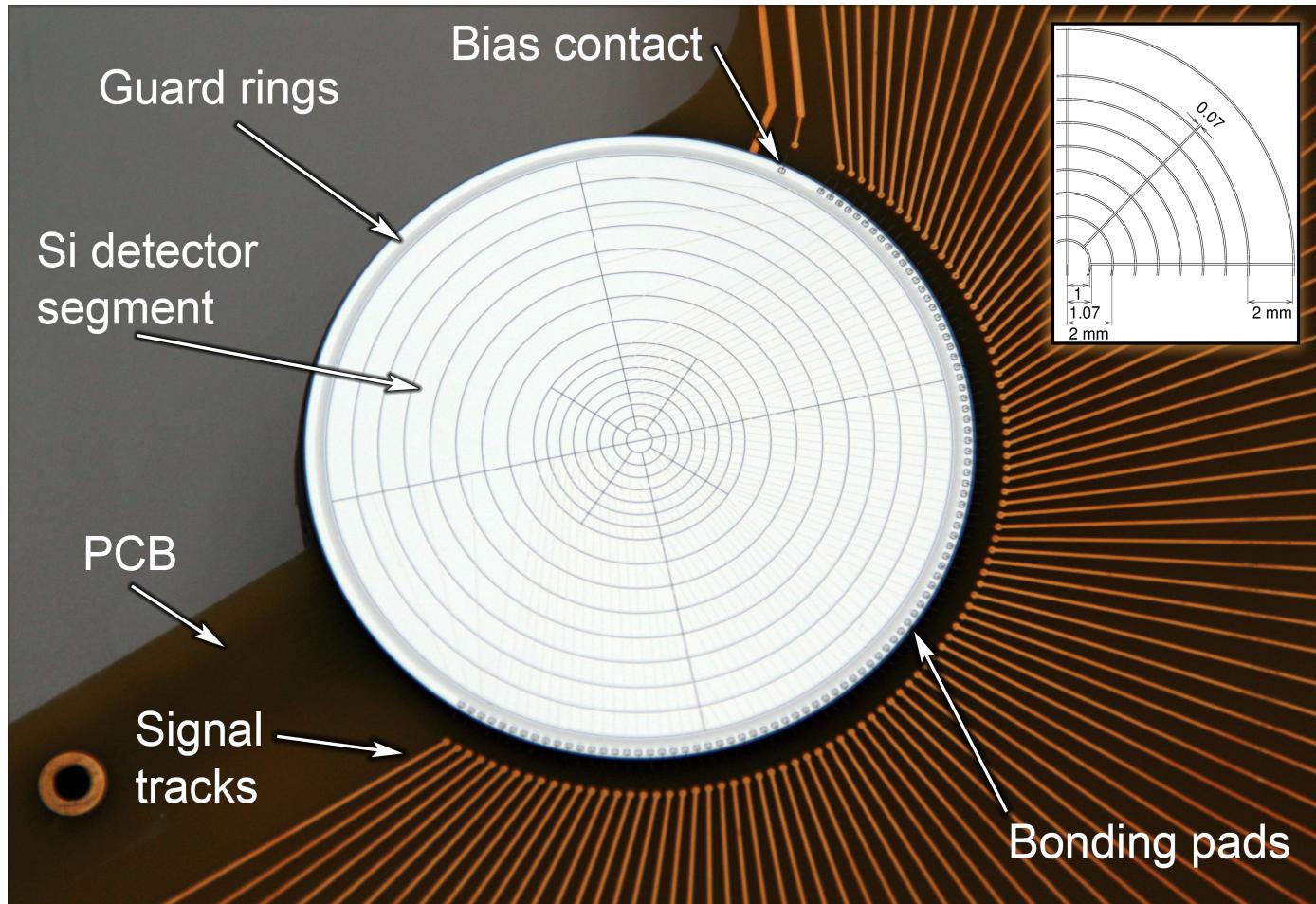
D.M. Cox et al, submitted to EPJA

SAGE

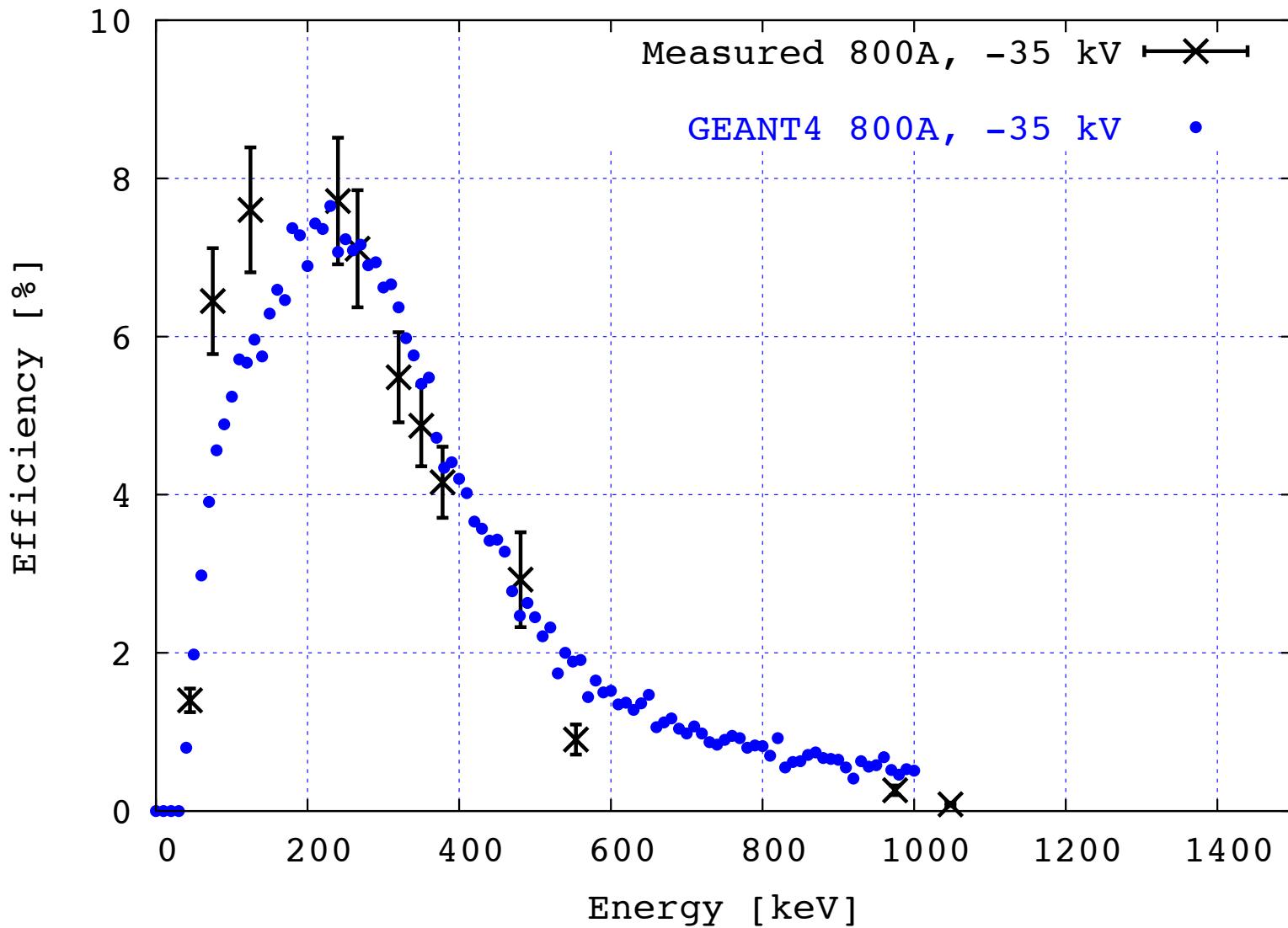


Target Chamber

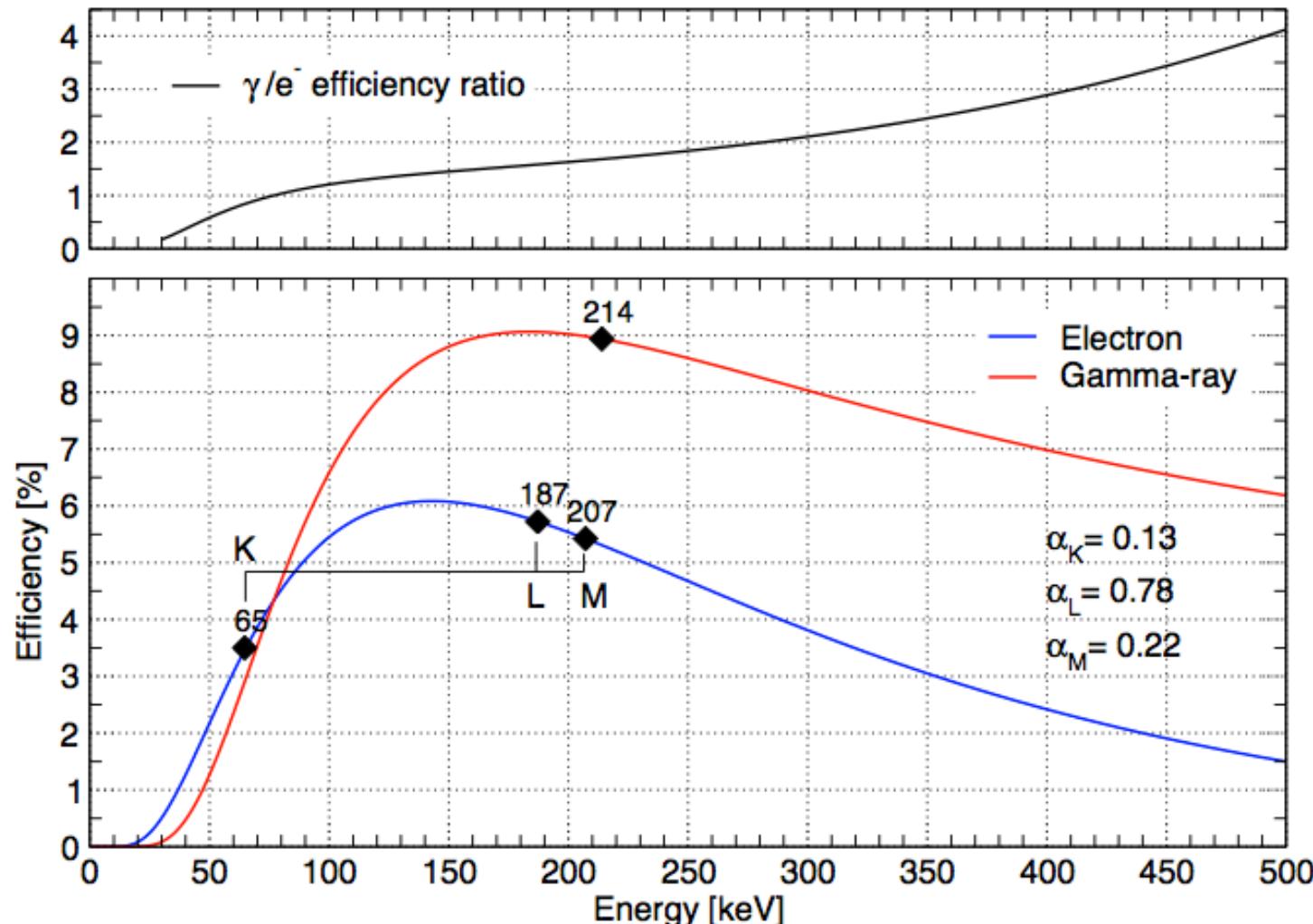




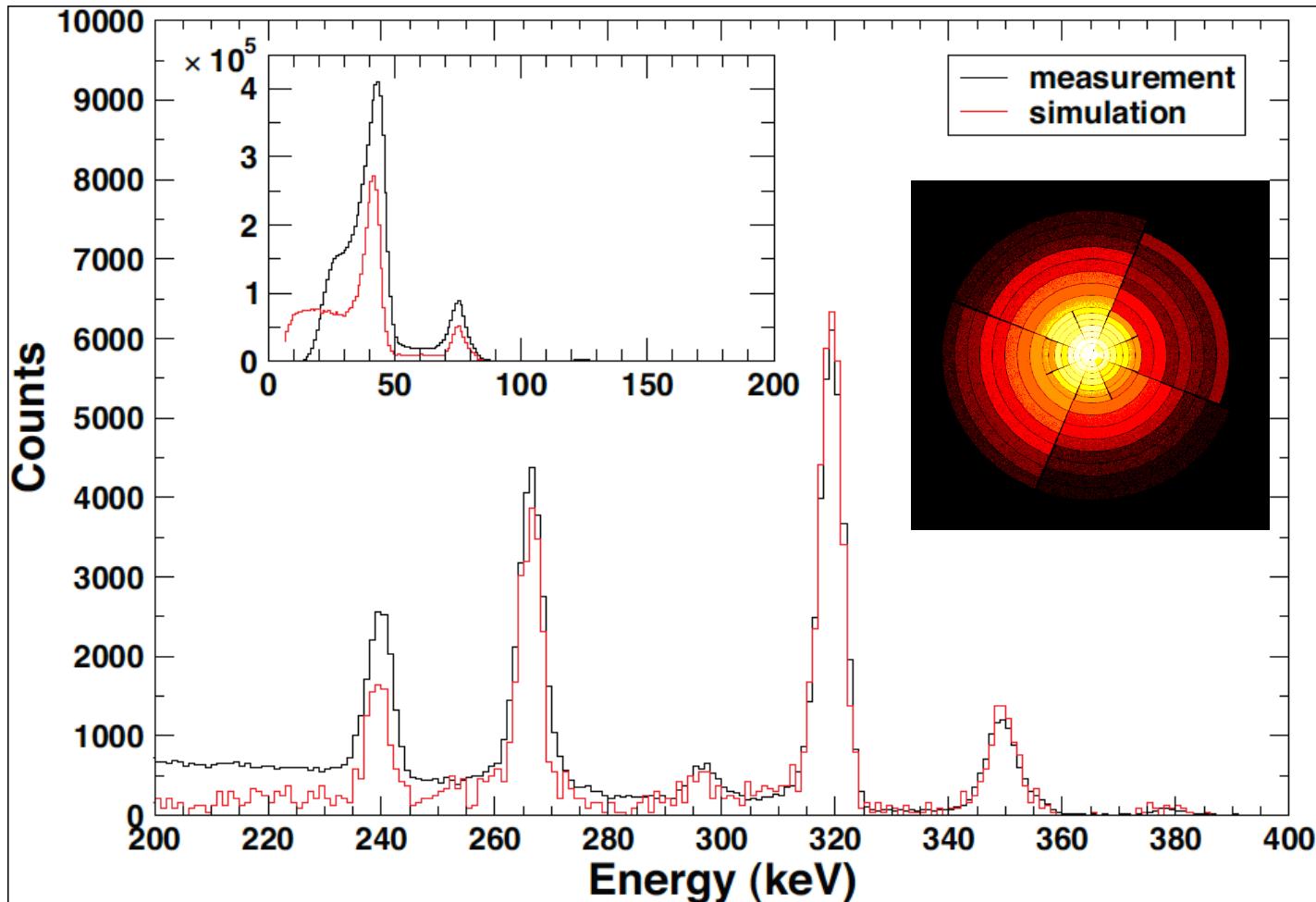
SAGE Efficiency



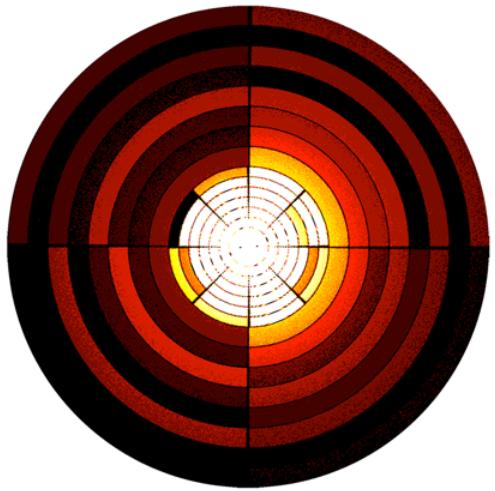
Coincidence Efficiency



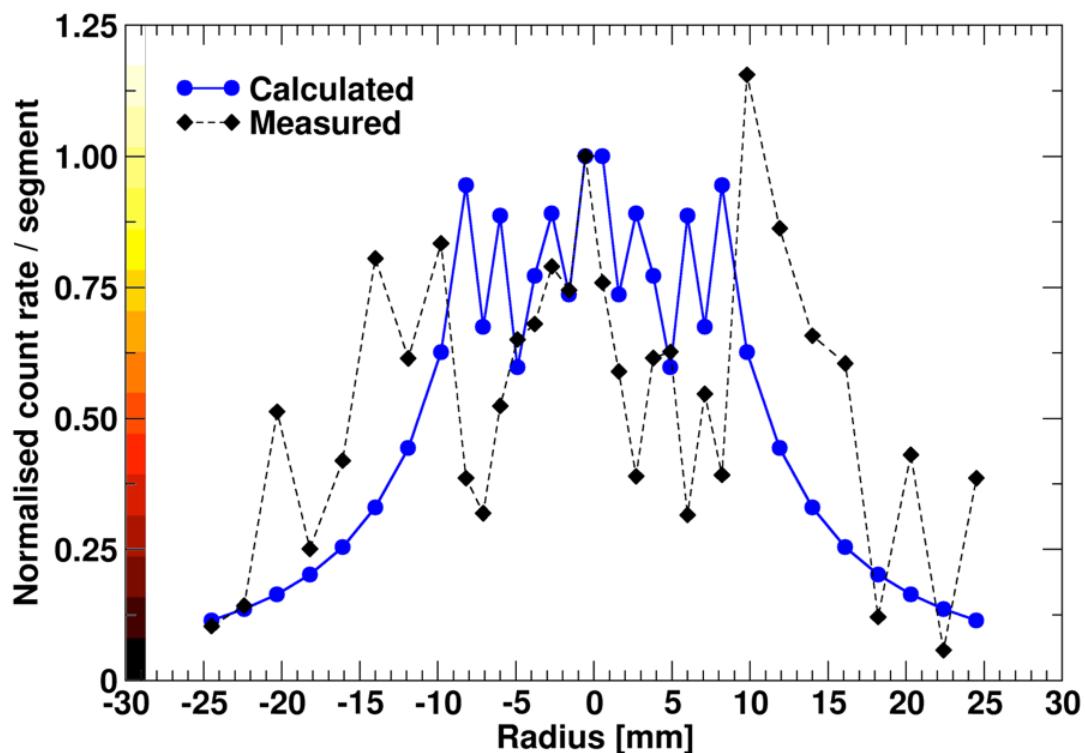
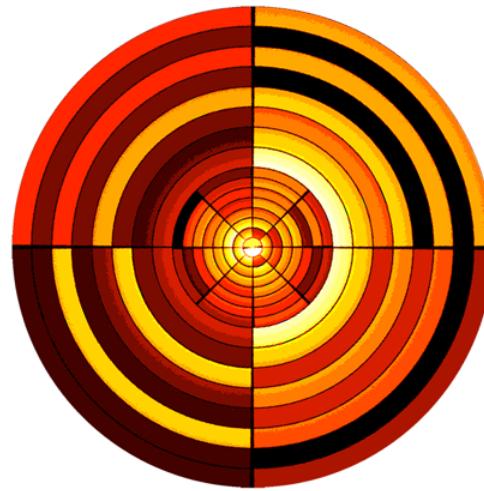
Performance



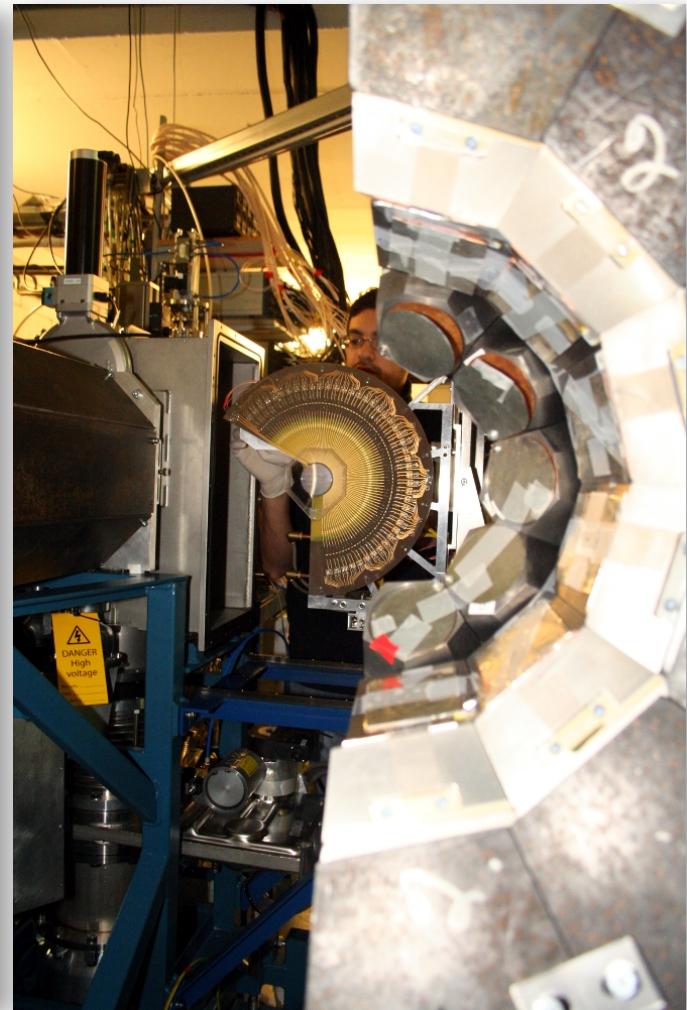
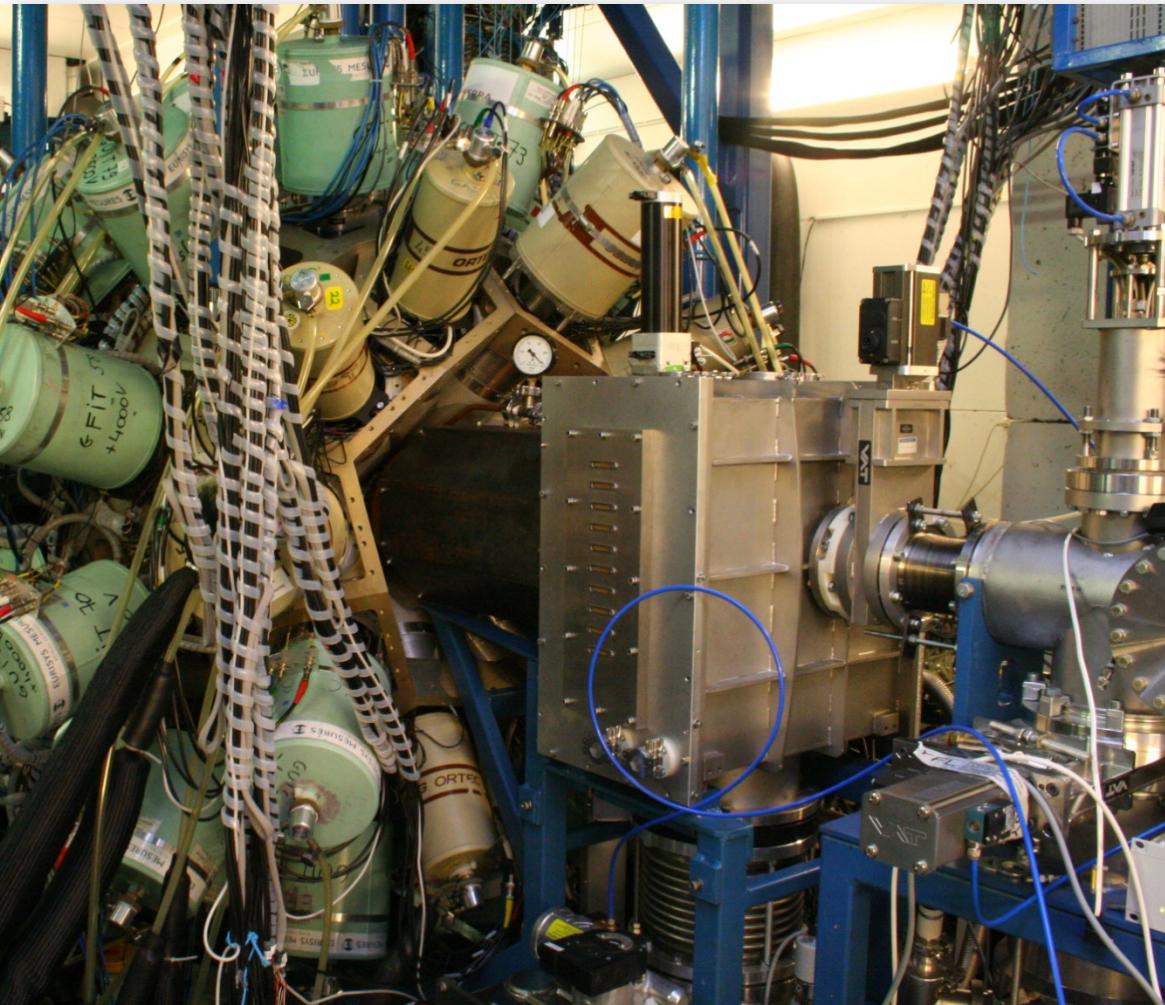
Count density



Counts



SAGE



SAGE Collaboration



And Finally...

Our Young Scientist Program in action:



Interdisciplinary Research!

