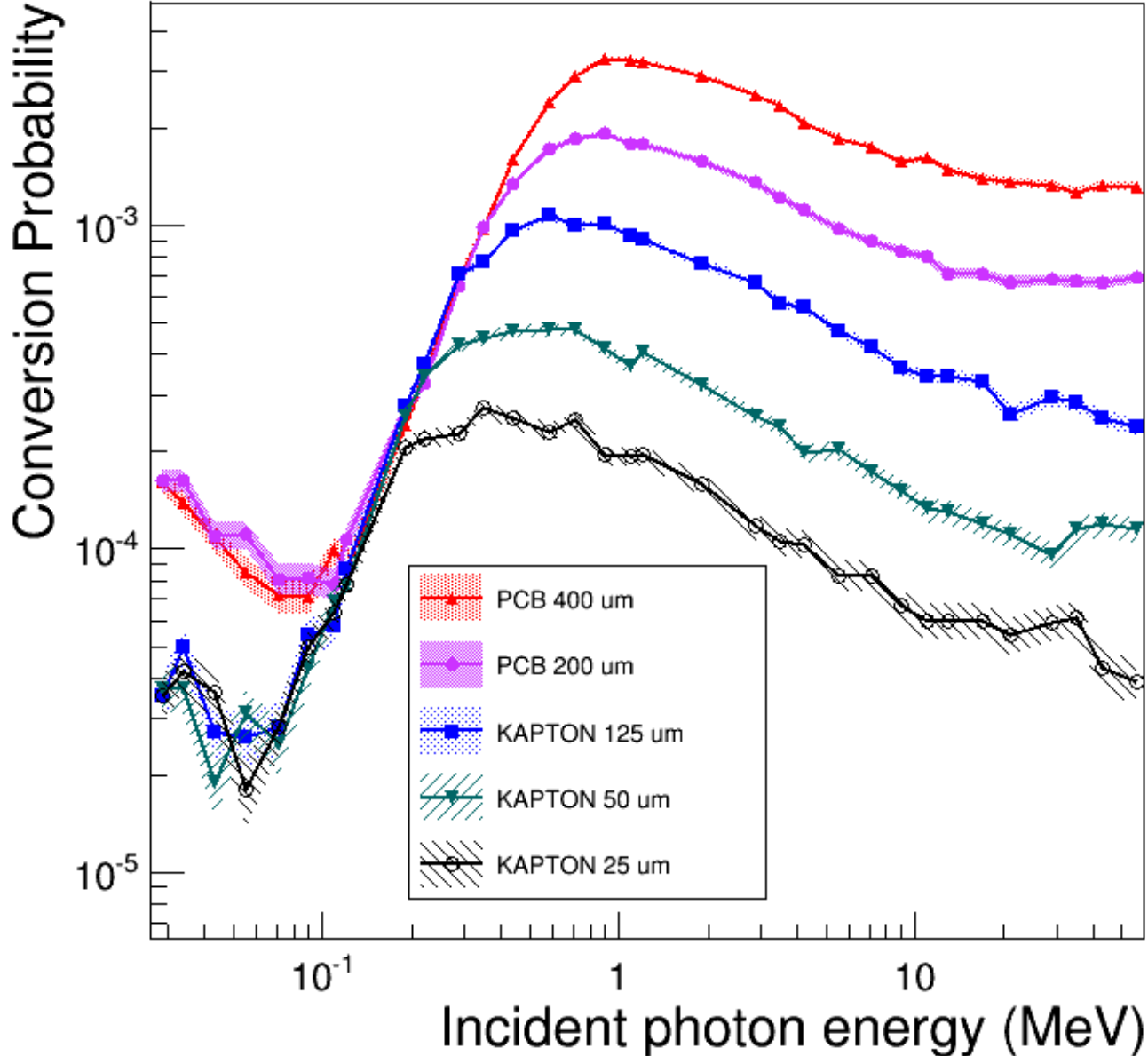


Specific studies on gamma interaction on PCB and Kapton

We have started studies to understand in more detail gamma interaction on various thicknesses of PCB and kapton that could be used for next prototypes.

Gammas in an energy range between 0.03 and 60 MeV were fired onto a single PCB or kapton foil.

The probability for the gamma to interact in the material and to give rise to electrons on the other side of the foil was estimated.



Conversion Probability – Convolution with the GE11 energy spectra

Foil	Conversion probability
25 um kapton	0.00016+-0.00002
50 um kapton	0.00029+-0.00004
125 um kapton	0.00057+-0.00006
200 um PCB	0.0009 +-0.0001
400 um PCB	0.0015+-0.0001

