

G4LowEPPolarizedComptonModel

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2nd Geant4 2015 EM Meeting

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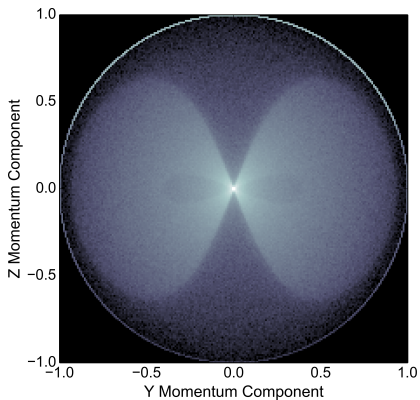
June 1, 2015

Implementation

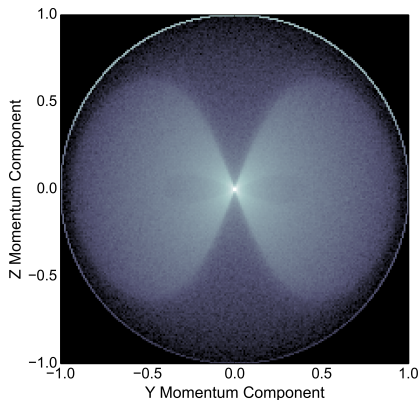
- Adapted from new MT version of G4LowEPComptonModel
- Polarisation algorithms implemented from G4LivermorePolarizedComptonModel
- Tested for Si over an energy range of 250 to 1000 keV
- Both scatter momentum distributions and polarisation distributions match with respect to G4LivermorePolarizedComptonModel (
- Fixed additional FPE issue in Livermore that reset photon polarisation plane after scattering

Scattered Photon Distributions: Si 250 keV (Log Intensity Scale)

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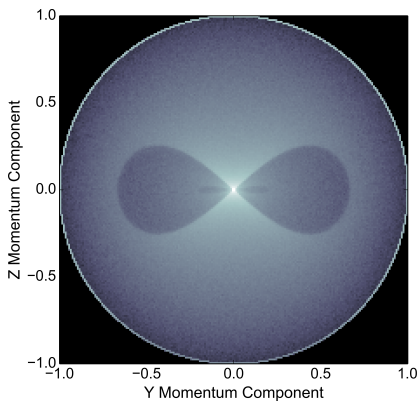


Livermore

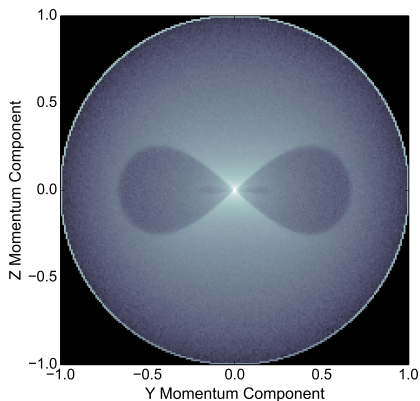


Scattered Photon Distributions: Si 500 keV (Log Intensity Scale)

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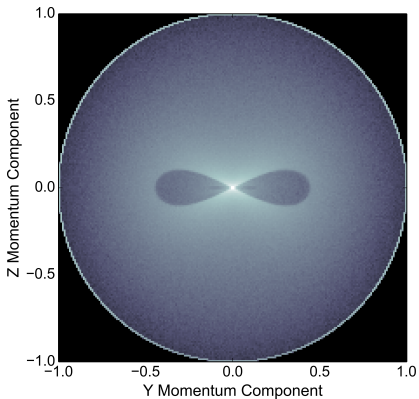


Livermore

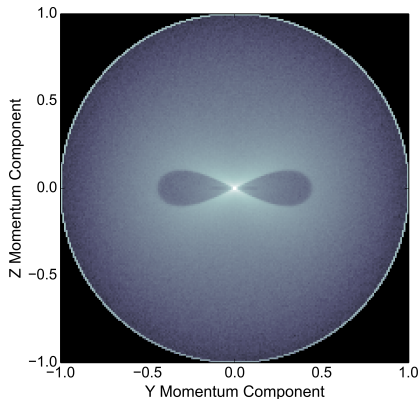


Scattered Photon Distributions: Si 750 keV (Log Intensity Scale)

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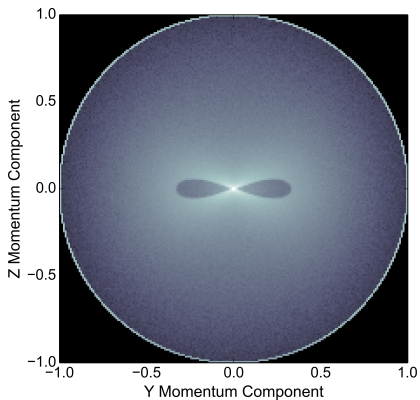


Livermore



Scattered Photon Distributions: Si 1000 keV (Log Intensity Scale)

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Livermore

