

- Source term
 - NEUTRON FLUX through baffles holes

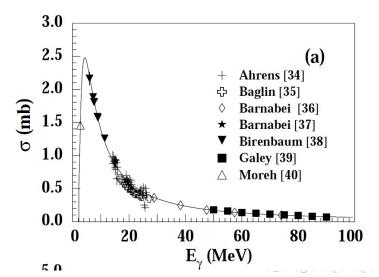
Source term

Problem with Deuterium and FLUKA

- In FLUKA for e- all hadron production is then the result of real gammas produced in electromagnetic interactions interacting with target nuclei.
- Well known problem, implementation is underway from FLUKA develoers
- Really important for Deuterium target.
- Good agreement for Neutron photoproduction on Deuterium.

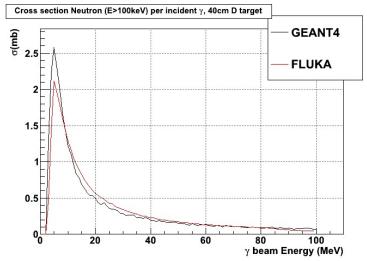
Source term

Measured cross section Neutron photoproduction on Deuterium



Source term

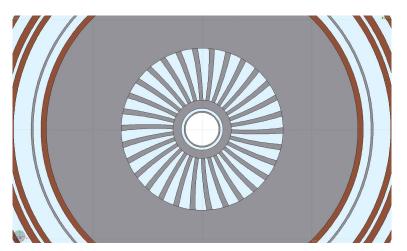
Neutron photoproduction on Deuterium GEANT4 vs FLUKA



Outline Source term

Baffle design

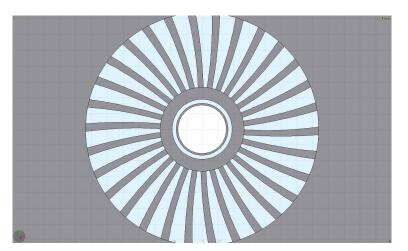
Baffle design



Outline Source term

Baffle design

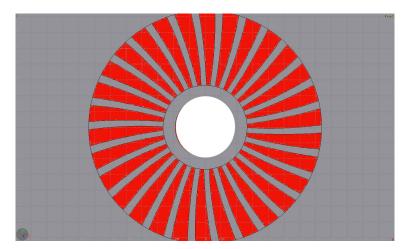
Baffle design



Outline Source term

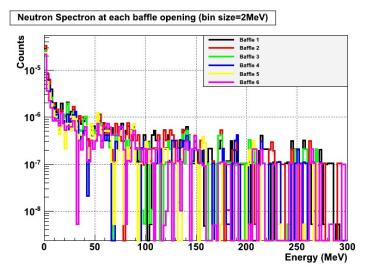
Baffle design

Baffle design flux through red area at different baffles



Baffle design

Neutron FLUX at different baffles holes



Baffle design

Neutron FLUX at different baffles holes



