SOLID

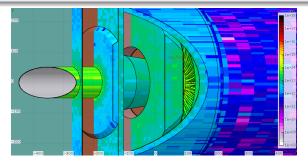
Radiation On the Calorimeter preliminary study



Situation from current simulation



PVDIS configuation with Deuterium: Dose for 2000h at $100 \mu A$

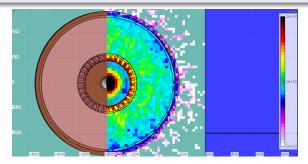


cm²

Situation from current simulation

$1 MeV_{eq} Neutron$ Particular on flux on calorimeter

PVDIS configuation with Deuterium: Dose for 2000h at $100\mu A$



◆□▶ ◆□▶ ◆ □▶ ◆ □▶ ○ ○ ○ ○ 4/4

What to do to improve results

This simulation was done to map the radiation inside the Hall

- Binning was too big (fluxes are averaged inside the bin)
- No phi simmetry (will speed up the result)
- I did not care about the structure of the calorimeter, because I needed just to have the right amount on material in place.
- All this one could improve with a dedicated simulation for this area of the EC