Pure Photon Beam

Place dipole right after radiator to bend e⁻ beam to a local dump

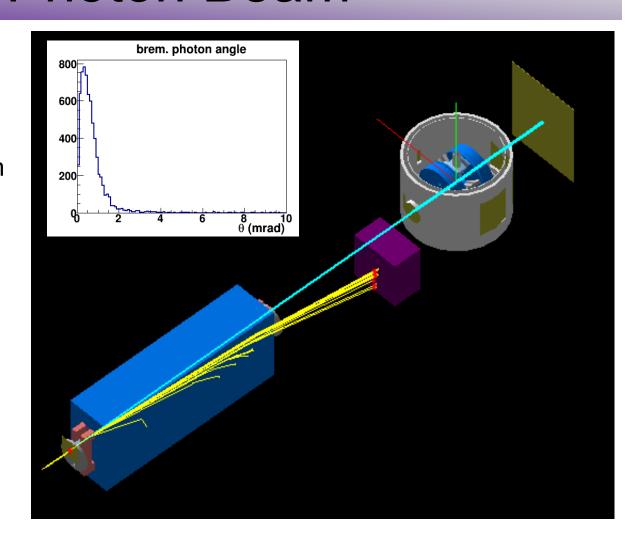
Brem. photon dispersion = 6 mm

Beam electron deflection =~ 45 cm

Need to setup shielding

Advantages:

- Target averaged polarization increases from 70% to ~90%,
 F.O.M increases by ~1.7
- 2) Target depolarization is much slower than electron beam
- 3) Can increase beam current from 100 nA to 400 nA or higher
- Overhead time is greatly reduced: fewer anneals, target changes and TE measurements (associated with target changes)



6% copper radiator located at -4.5m (upstream) FZ magnet located at -3.3m, BdL=3.1 Tesla.meter Local dump at -0.8m (15 cm lead, ~27 radiation length)