

# Polarization

- 30% e+ polarization
  - **Photon collimation  $\Leftrightarrow$  polarization** (Ian et al., DESY)
  - **Optimization for high e+ polarization**
  - **helicity reversal (incl. alternative scheme – Alexander? )**
    - interaction with IP (polarimeter, physics)
- G4 with polarization extension
  - **Validation** (DESY,...)
  - **Updates** (DESY, Minsk)
  - **spin tracking simulation at the source** (DESY,...)
- Low energy e+ polarimeter → report (DESY, HUB,Minsk,TAU)
  - **Bhabha (~400 MeV),**
  - Compton (5GeV, longitudinal polarization)
    - Further studies in cooperation with machine and laser wire people
    - Belongs not really to the e+ source

**All other polarization tasks beyond the source belong to accelerator / simulation etc. groups**