Polarization peak at 9 GeV

Polarization peak at 6 GeV

Increase in peak polarization = × 1.7

Polarization peak at 9 GeV

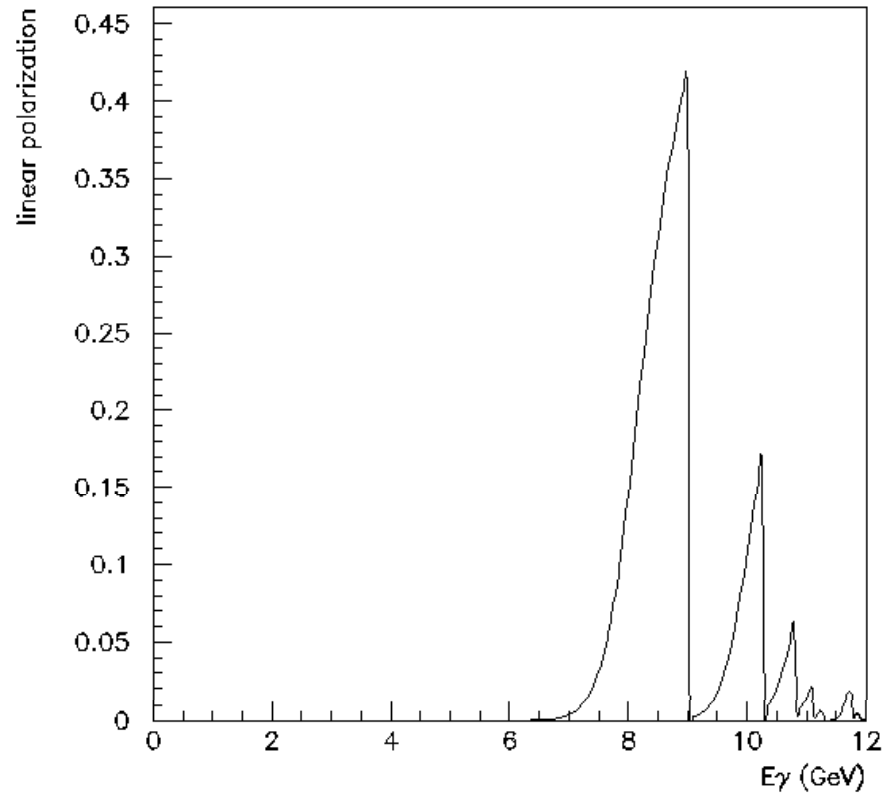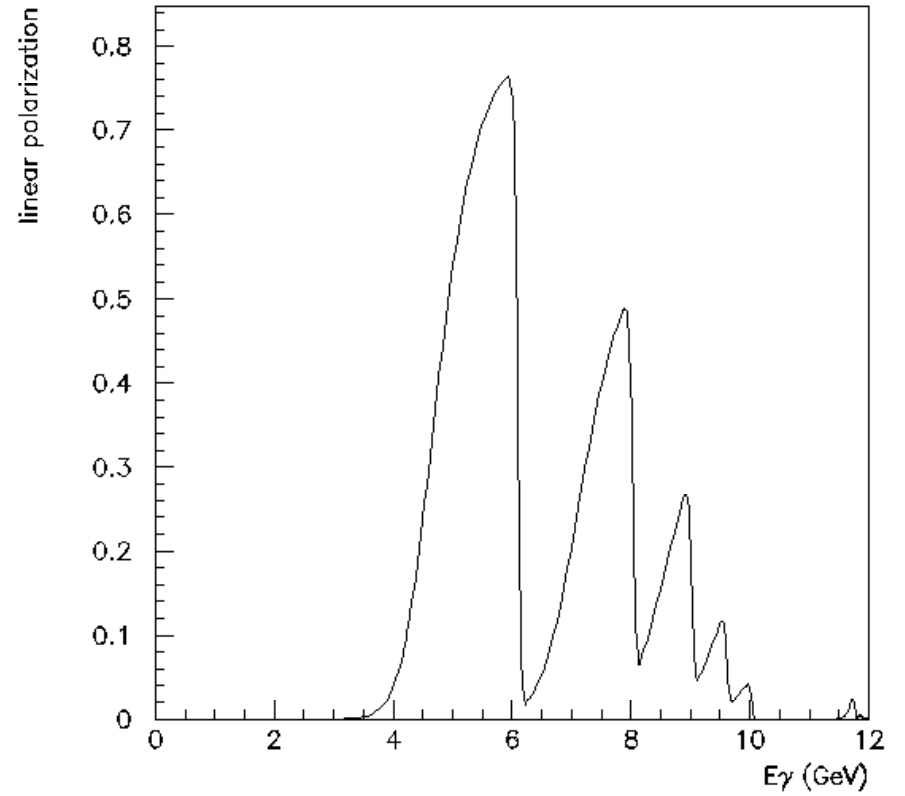## Polarization peak at 6 GeV

Increase in peak rate= × 4.2

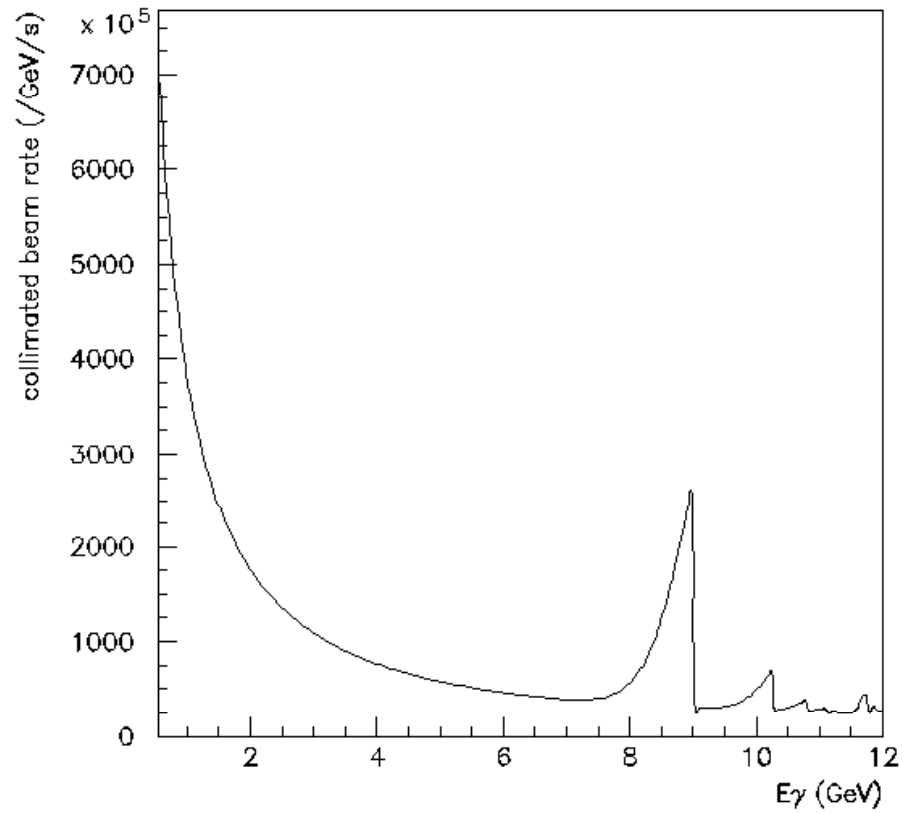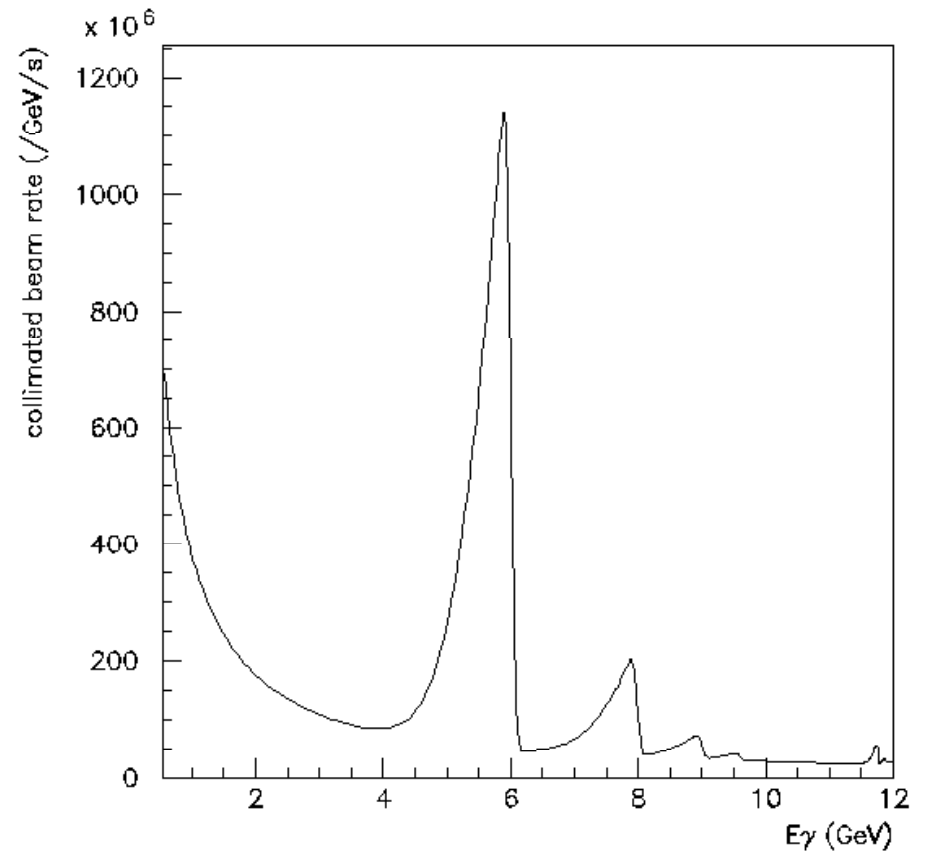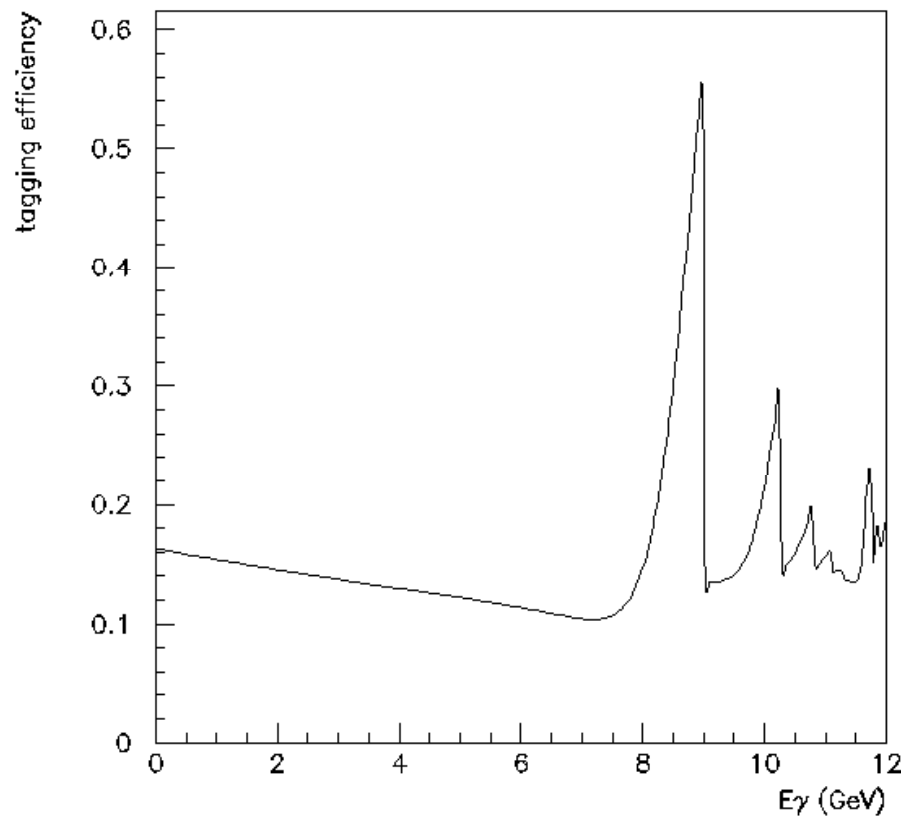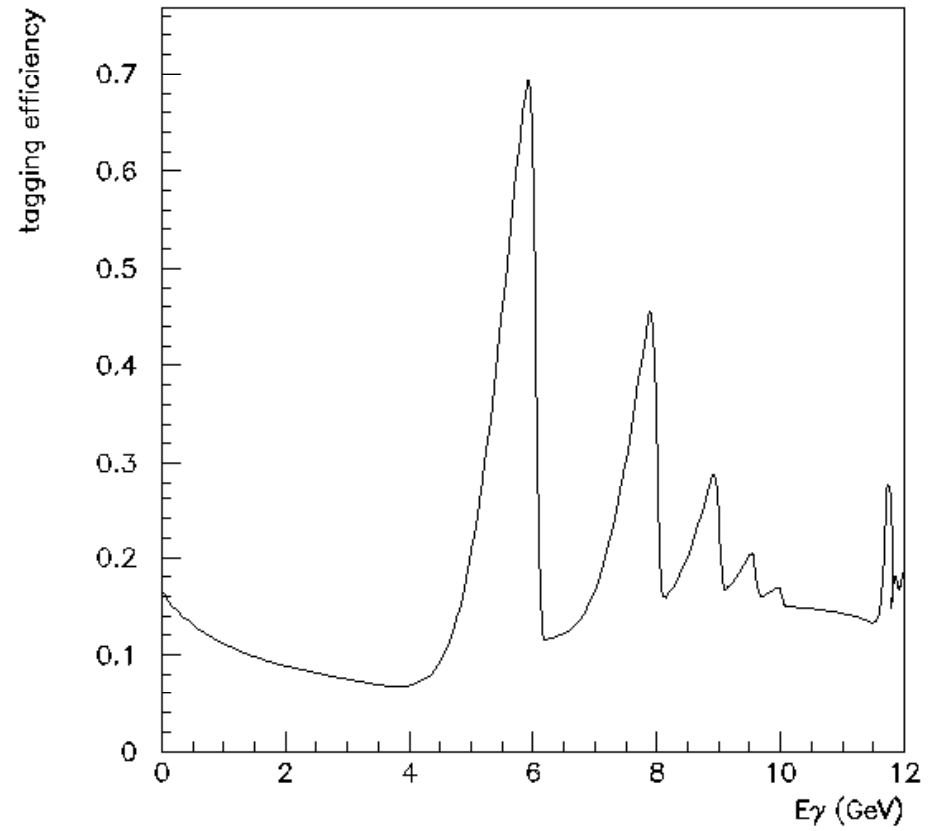Polarization peak at 9 GeV

Polarization peak at 6 GeV

Increase in peak tag eff. = × 1.3

Beam figure of merit = P^2 × (Photon Rate) × (Tagging eff.)

The F.O.M. increase in moving the polarization peak from 9 GeV to 6 GeV is
$1.7^2 \times 4.2 \times 1.3 = 16$