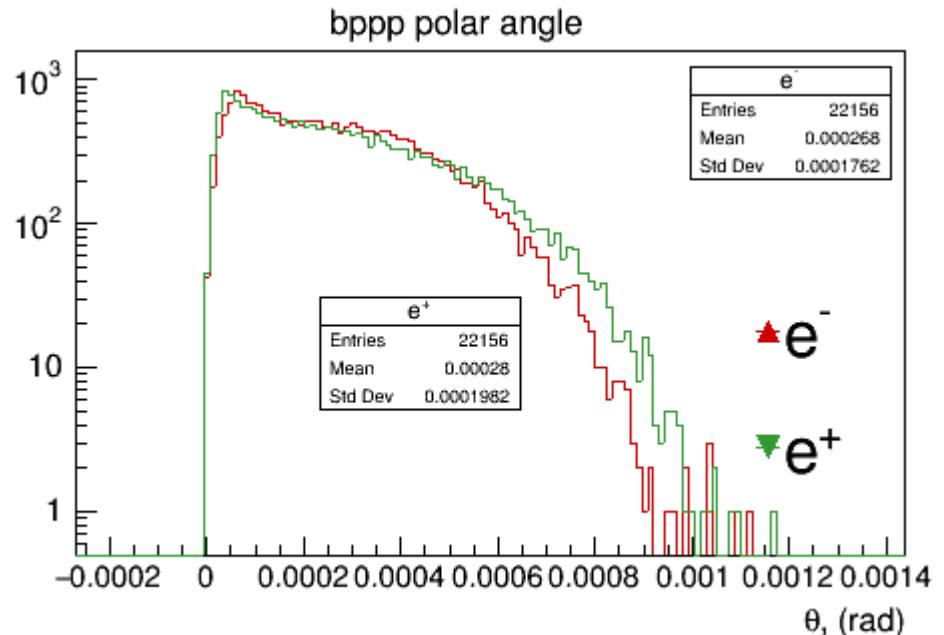
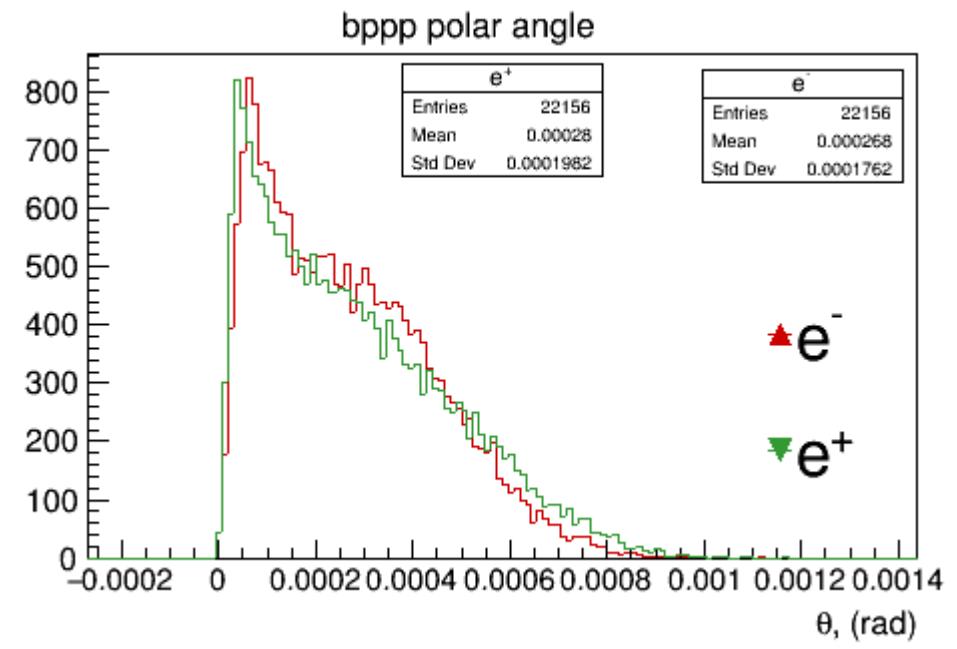
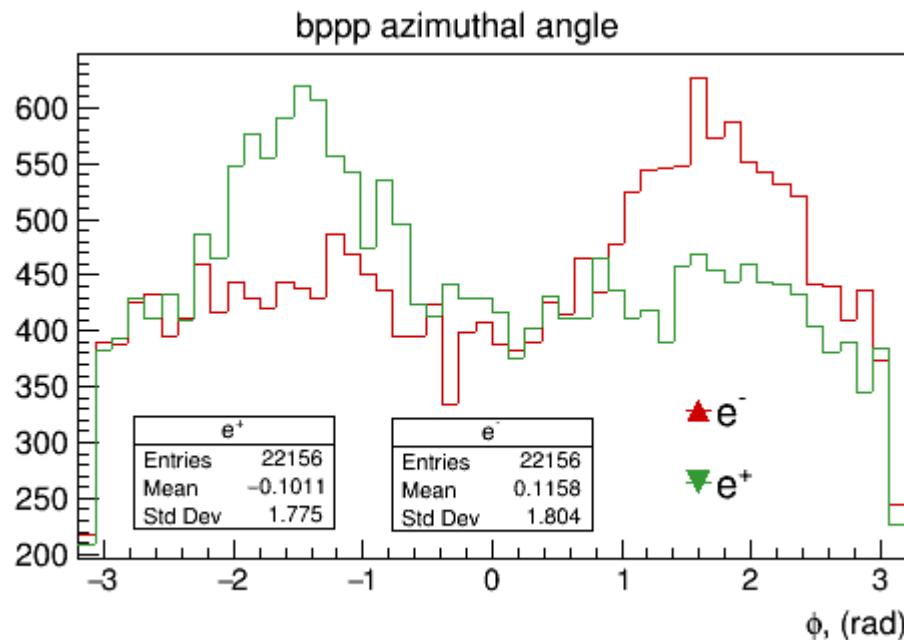
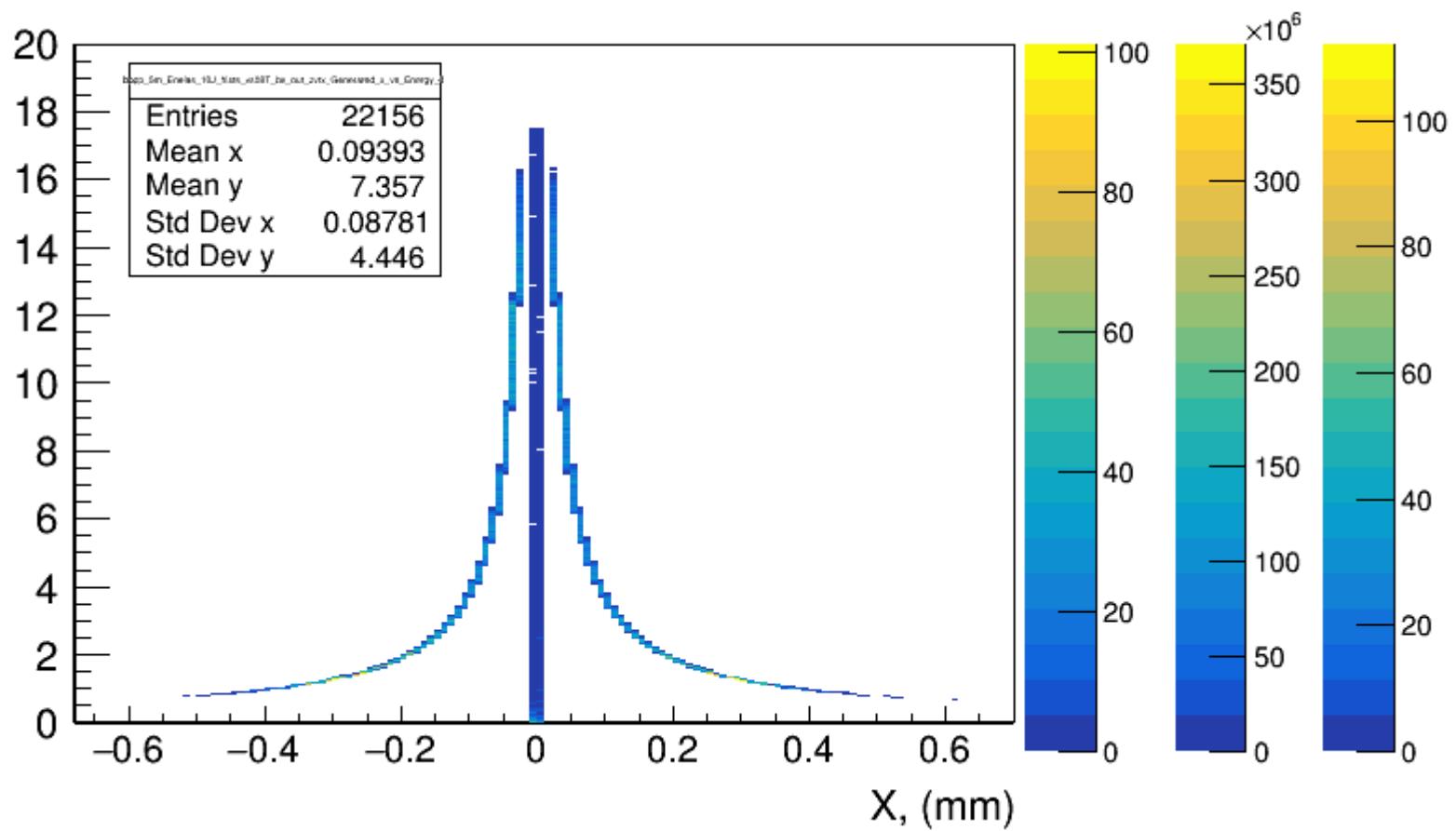


e- e+ φ and θ angles distribution





LUXE AFS shared directory

Shared directory for luxe group:

/afs/desy.de/group/flc/luxe

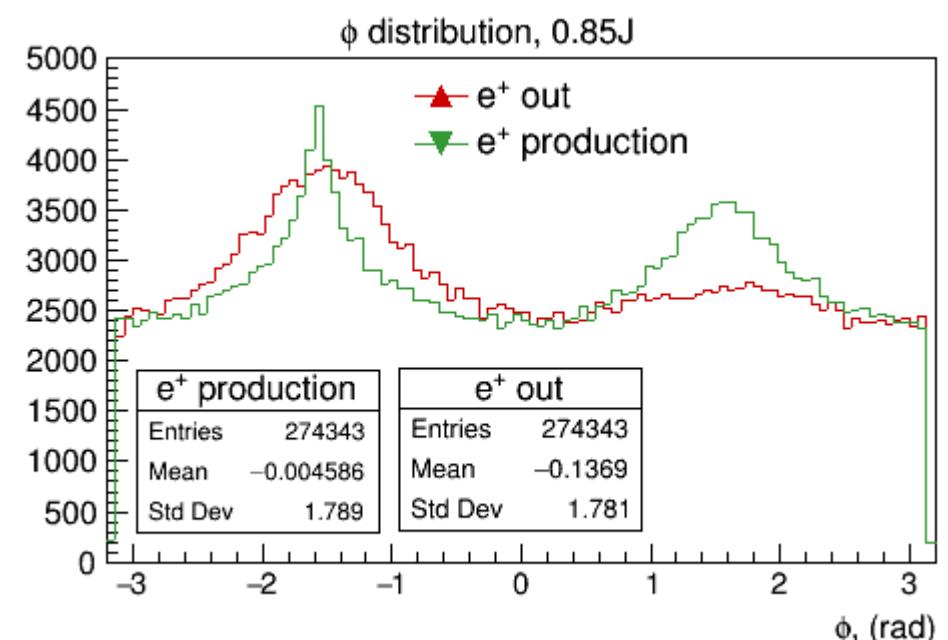
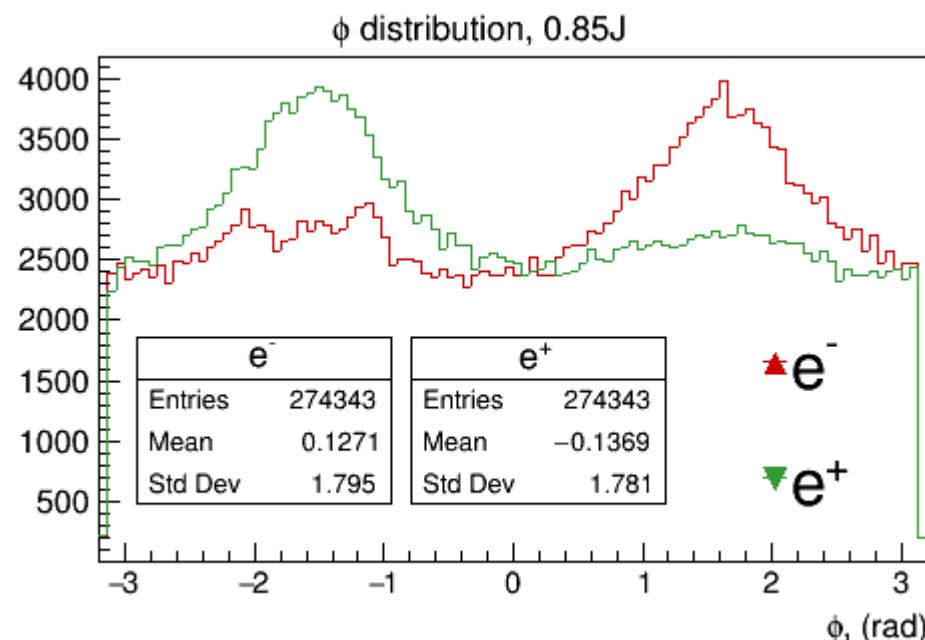
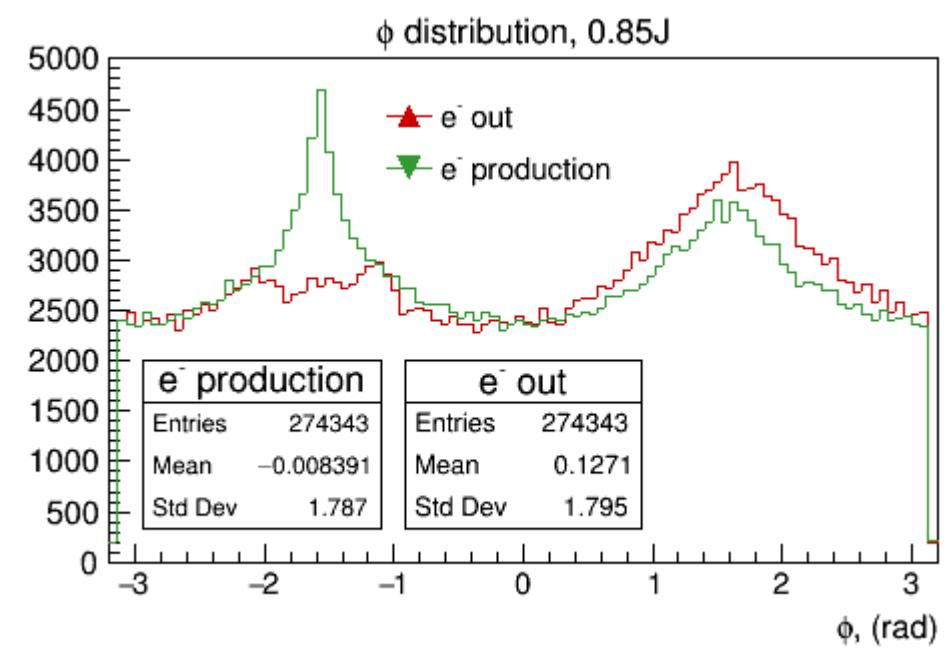
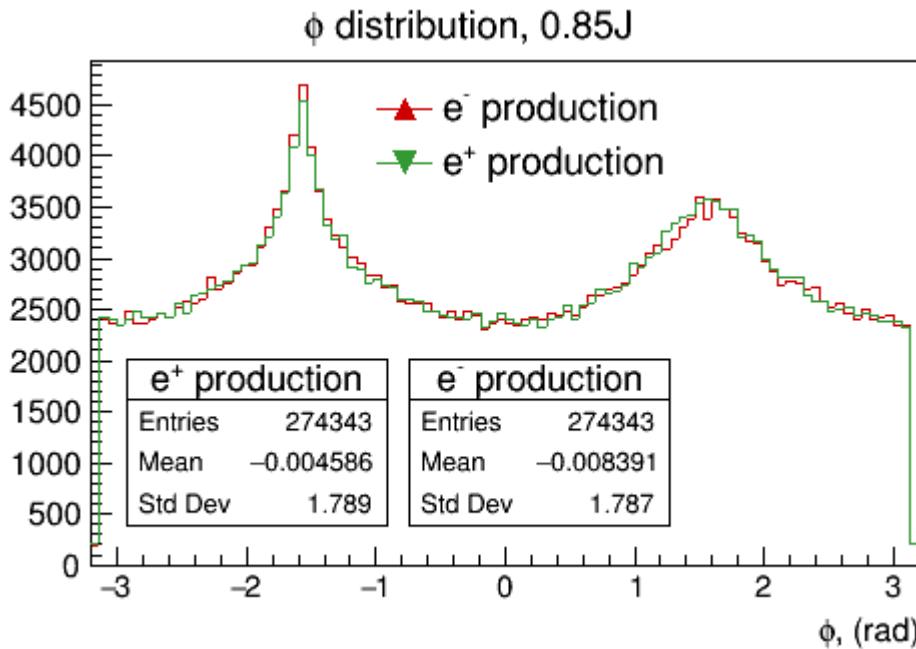
```
[oborysov@naf-ilc12 macro]$ fs listquota /afs/desy.de/group/flc/luxe --human
Volume Name          Quota      Used %Used   Partition
g.flc.16914A5D452    500.0G    2.0K    0%           0%
```

List group members: pts members usg:luxe

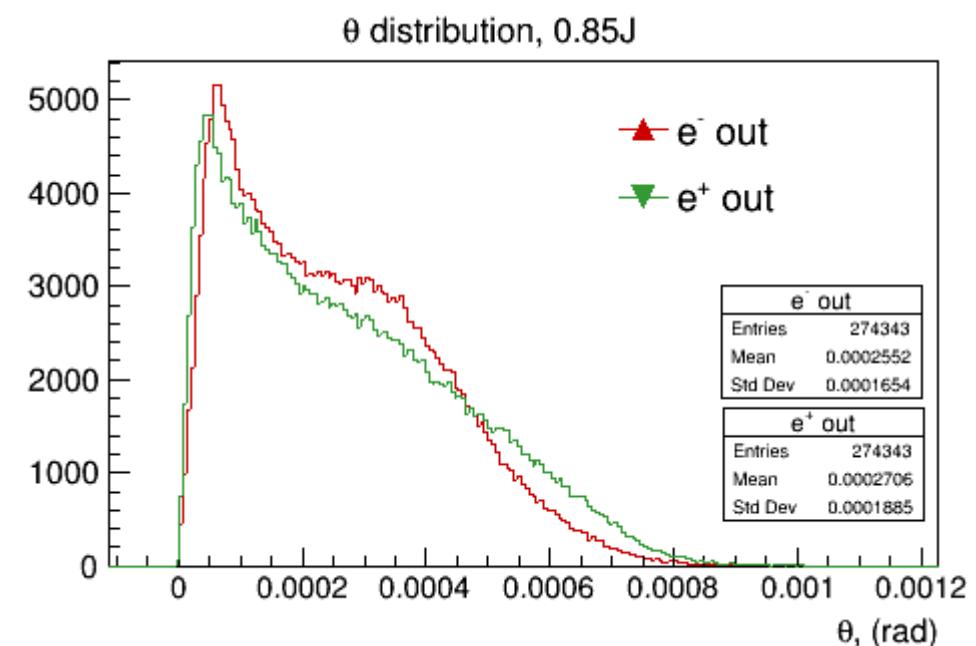
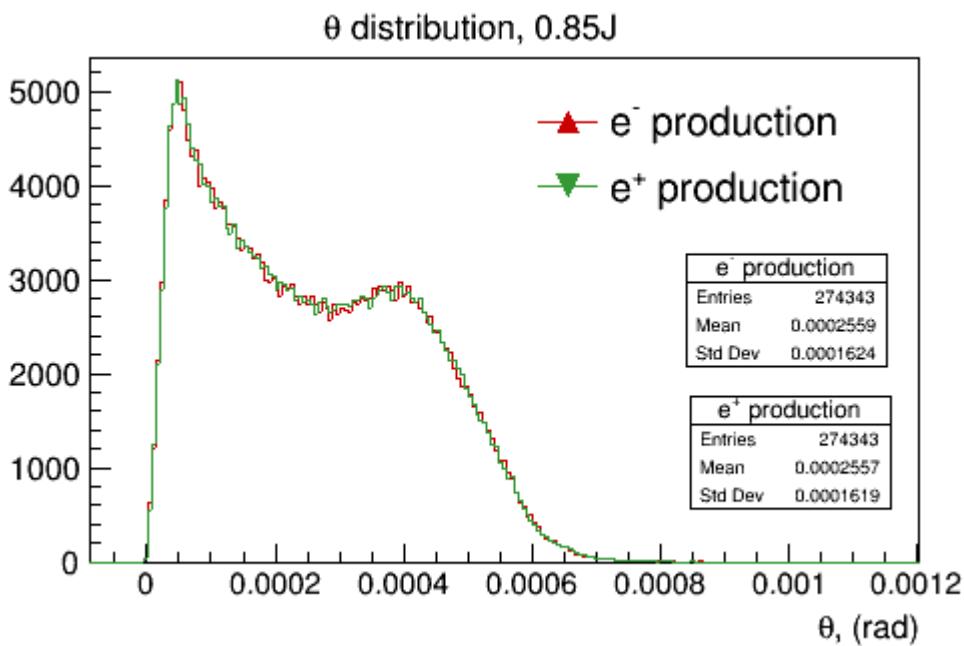
AFS fs command can be used to share also (for reading) a directory in /afs/....pool/...

To check permissions in a directory: fs listacl <path_to_directory>

e- e+ azimuthal angle distribution



e- e+ polar angle distribution



OPPP for different ξ and χ_γ

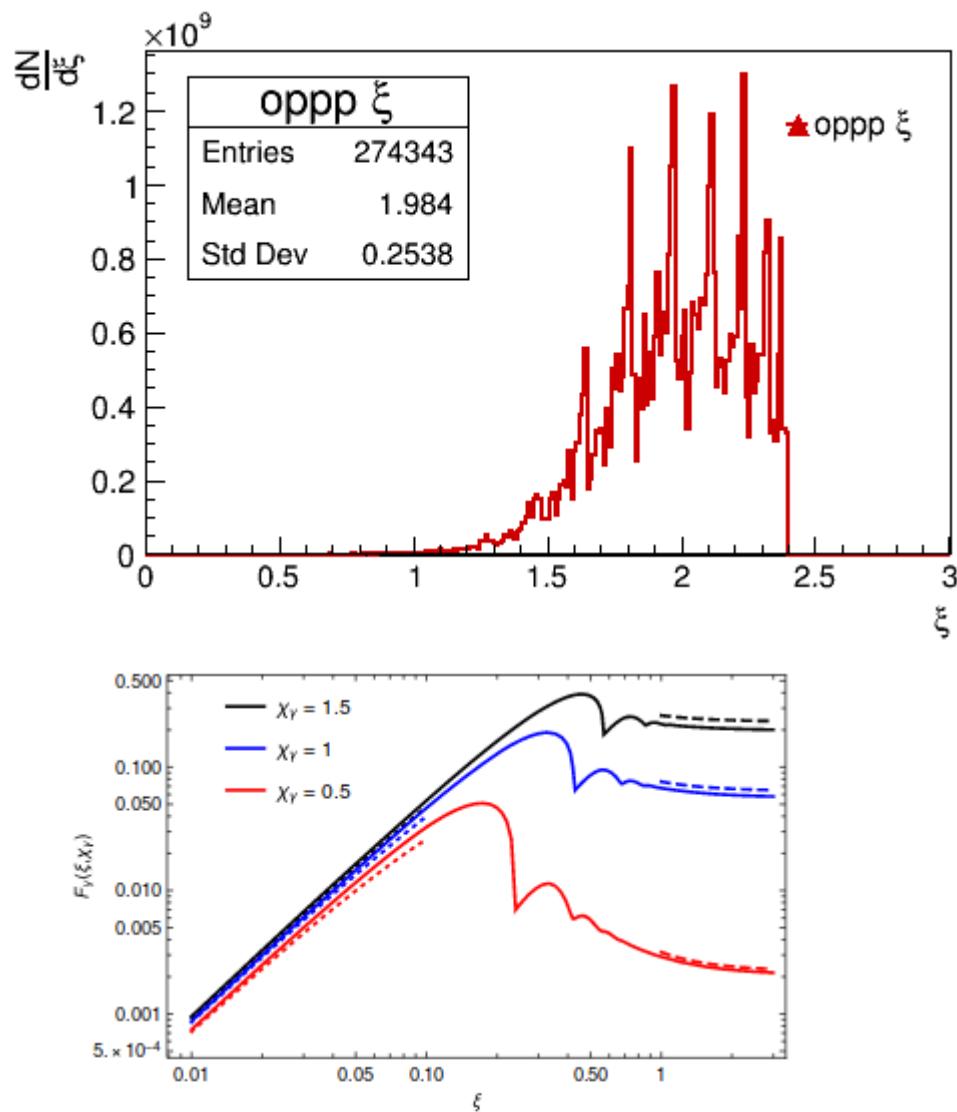
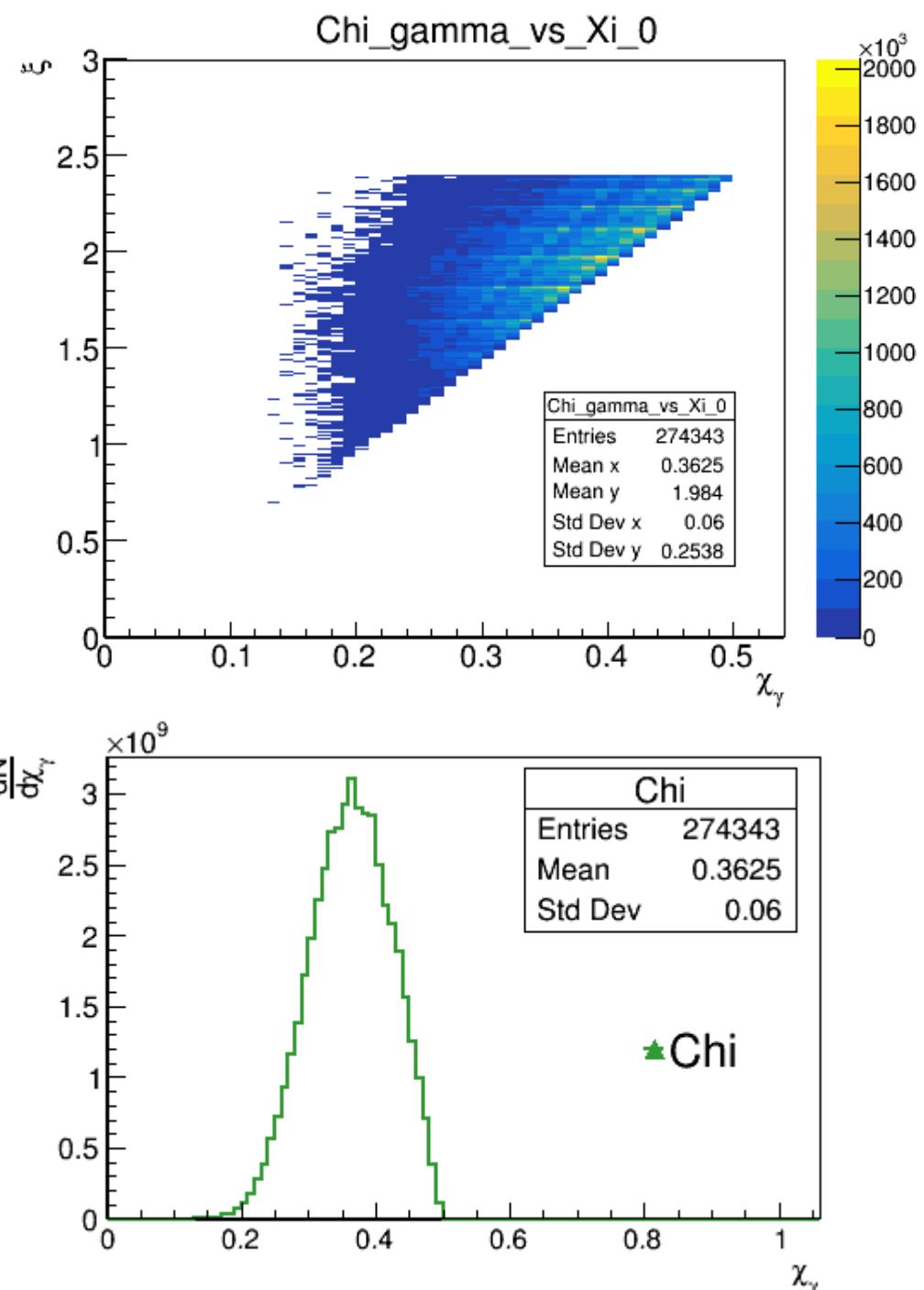


FIG. 2. The dimensionless function $F_\gamma(\xi, \chi_\gamma)$, Eq. (6), describing the probability of laser-assisted OPPP, as a function of the laser intensity parameter ξ , for different values of the photon recoil parameter χ_γ (solid lines). The dotted (dashed) line shows the analytic result valid at small (large) values of the intensity parameter, Eq. (8) [Eq. (9)].



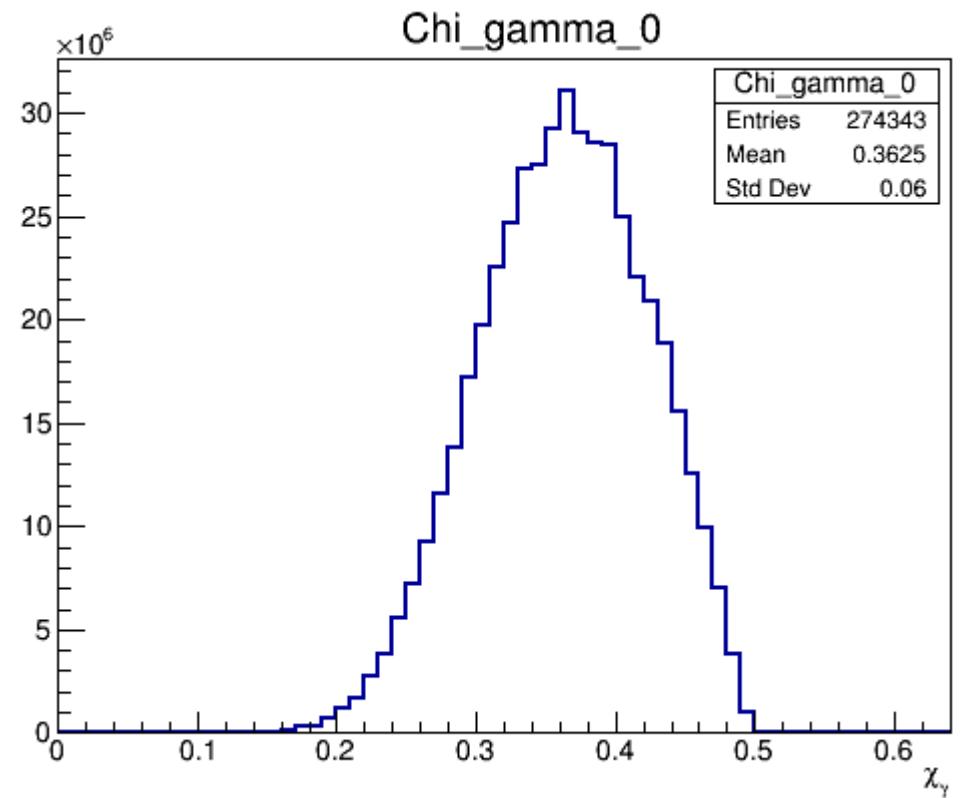
χ_γ

$$\xi \equiv \frac{e|\mathbf{E}|}{\omega m_e} = \frac{m_e |\mathbf{E}|}{\omega E_c}, \quad \chi_\gamma \equiv \frac{k \cdot k_i}{m_e^2} \xi = (1 + \cos \theta) \frac{\omega_i |\mathbf{E}|}{m_e E_c}, \quad (5)$$

$$\chi_\gamma = (1 + \cos(\theta)) \frac{\omega \omega_i}{m_e^2} \xi$$

- $\cos(\theta) \sim 1$;
- $\omega \sim 1.5 \text{ eV}$;
- $\omega_i < 17.5 \text{ GeV}$;
- $m_e \sim 0.5 \text{ MeV}$;
- $\xi < 2.4$.

$$\chi_\gamma < (1+1) \frac{17.5 * 1.5 \text{e-9}}{0.5 \text{e-3}^2} 2.4 \approx 0.48$$



Spectra e-

