

BPPP monte carlo

- IPstrong monte carlo with initial photons from 17.5 GeV electrons impinging on a foil 2m from the IP
- 5 putative experiment stages (phases) chosen, according to the intense laser pulse energy, and associated intensity parameter ξ

phase0 = 0.35 J ($\xi = 1.53883$)

phase0.05 = 0.52 J ($\xi = 1.87568$)

phase0.1 = 0.69 J ($\xi = 2.16063$)

phase0.15 = 0.85 J ($\xi = 2.41216$)

phase0.2 = 1.0 J ($\xi = 2.6011$)

- Positron spectrum recorded at the end of the bunch/pulse interaction
- Generally, increasing rate with intensity
- Monte Carlo currently limited to a maximum $\xi = 3.1$, $\chi = 0.75$

