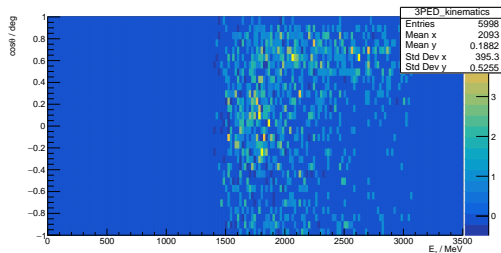
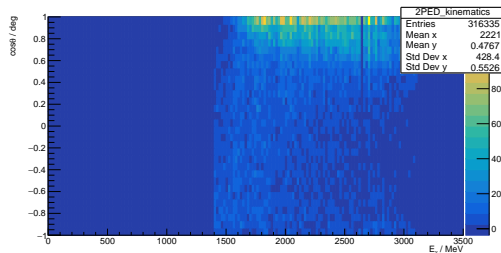


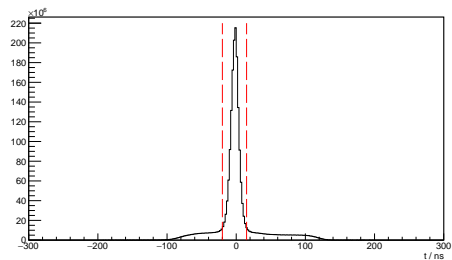
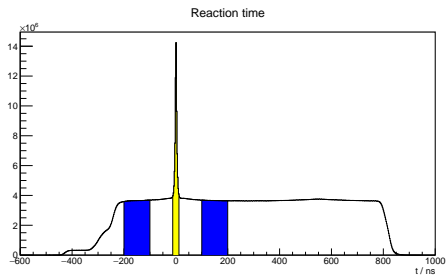
Event selection for η' analysis

$\eta' \rightarrow \gamma\gamma$: 2PED and 3PED with charge information (12/2017, 05/2018 beamtime):

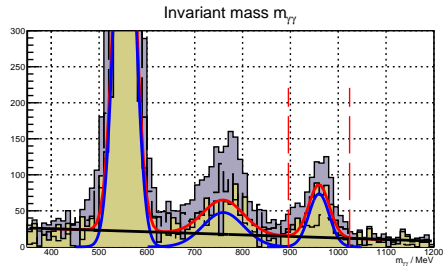
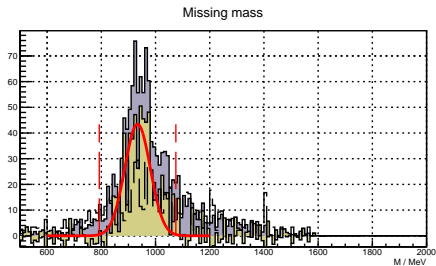
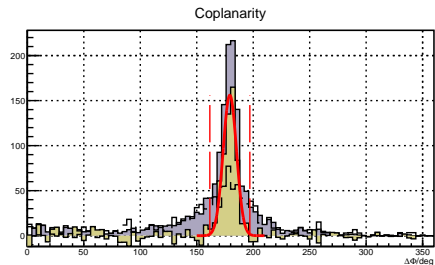
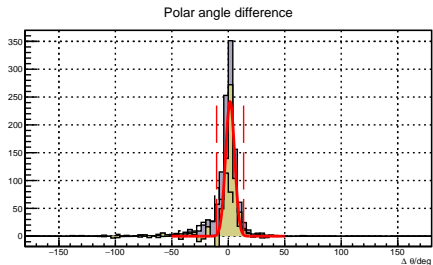


- ▶ 2PEDs are mostly very forward events and mostly carbon
- ▶ keep the few 3PEDs

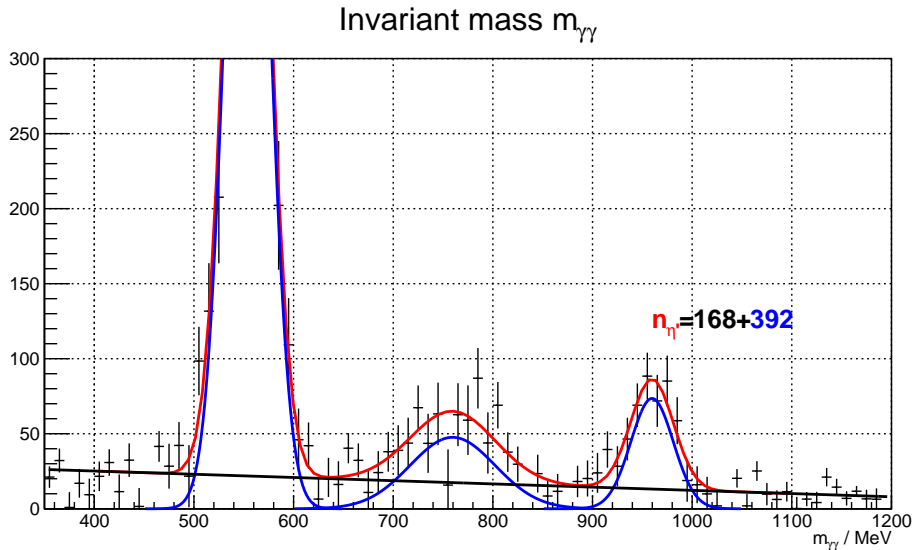
employ cuts on reaction time and meson-proton-time...



...and the usual kinematic cuts (carbon from 05/2018, in addition: $E_\gamma > 1400$ MeV)



total yield:



TBD: background in missing mass spectrum, inv. mass spectrum, with MC