

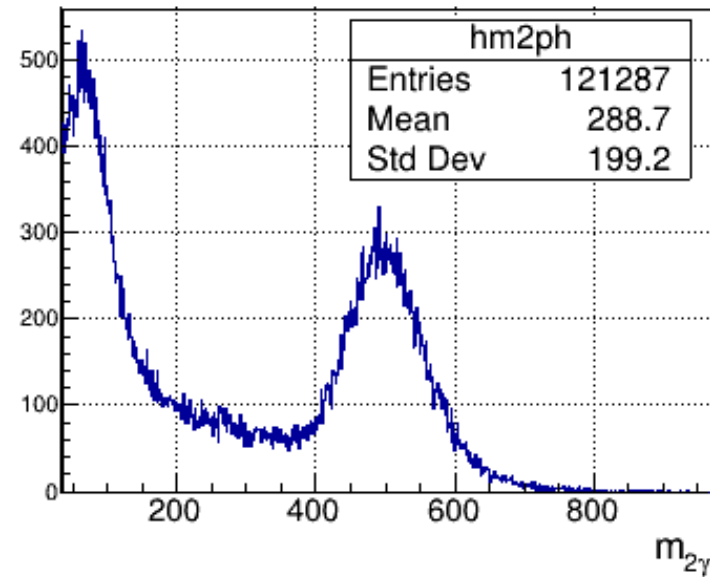
My general idea was to select events with single (double) tagged fermions scattered to large angles. Ex., in the single tagged mode the produced number on eta meson is  $8\text{fb}^{-1} \times 5.2\text{pb} = 40\,000$  events.

I have tried to handle with privately generated sample of  $e^+e^- \rightarrow \eta e^+e^-$  **10000** events.

The MC is obtained by Dario using Ekhara.

I have reconstructed the ybos file using privately installed version of mygeanfi.

*The spectrum of all combinations of photons*

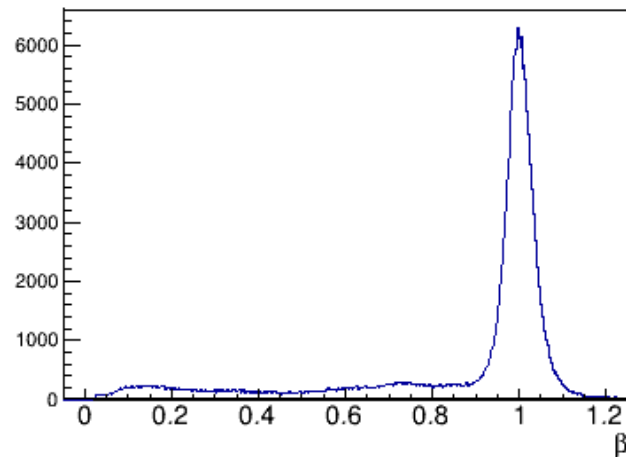
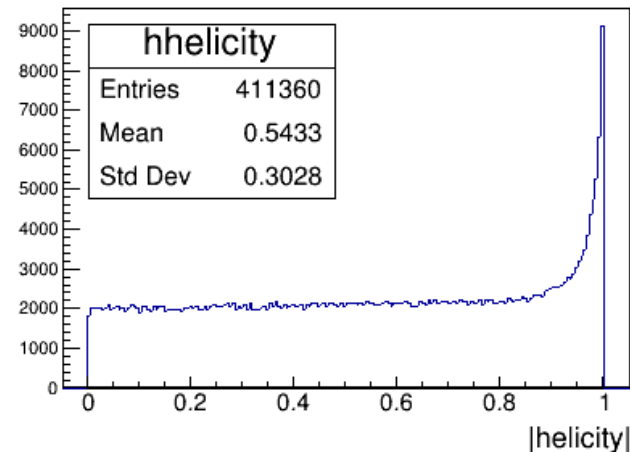


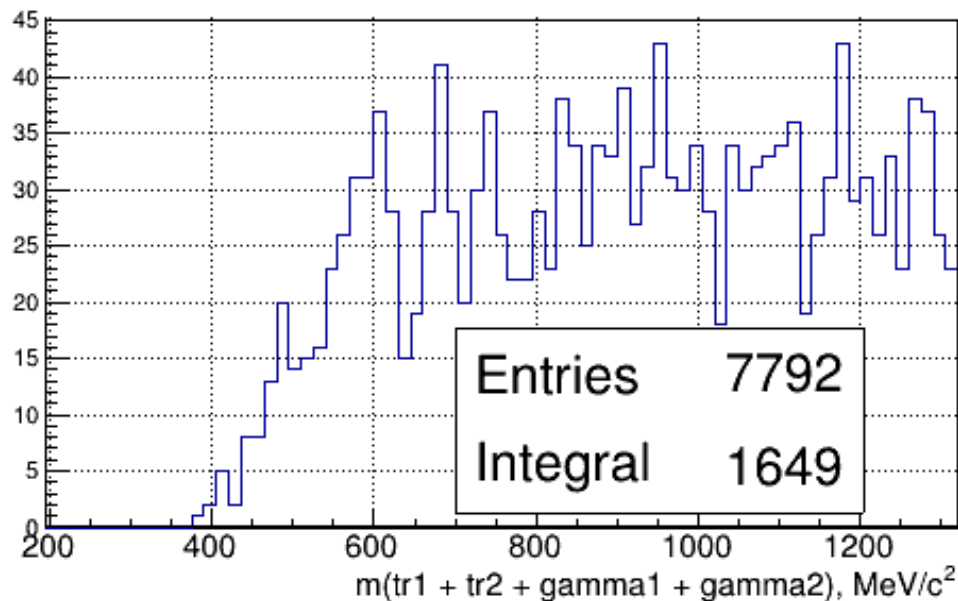
I have selected events with

- $80 < m_{\{2 \text{ gamma}\}} < 180 \text{ MeV}/c^2$
- $|\text{helicity}| < 0.9$
- $0.9 < \beta_{\{\text{gamma}\}} < 1.1$
- The cycle over all tracks

```
for(int k = 0; k < ntv; k++){  
  for(int l = k+1; l < ntv; l++){  
    if(Curv[k]*Curv[l] > 0)continue;
```

```
....  
}}
```





In the hypothesis that the two used tracks are pions I plot the spectrum of invariant mass of two tracks and two photons.

I don't see the peak from eta meson. I don't understand why. Thank you for help in advance. I think that the best way if the ekhara will be installed in the general kloe mc software.