Status report on

 $\eta \rightarrow \pi^+ \pi^- e^+ e^-$

Phi-decays WG meeting 30-05-2007

MC status

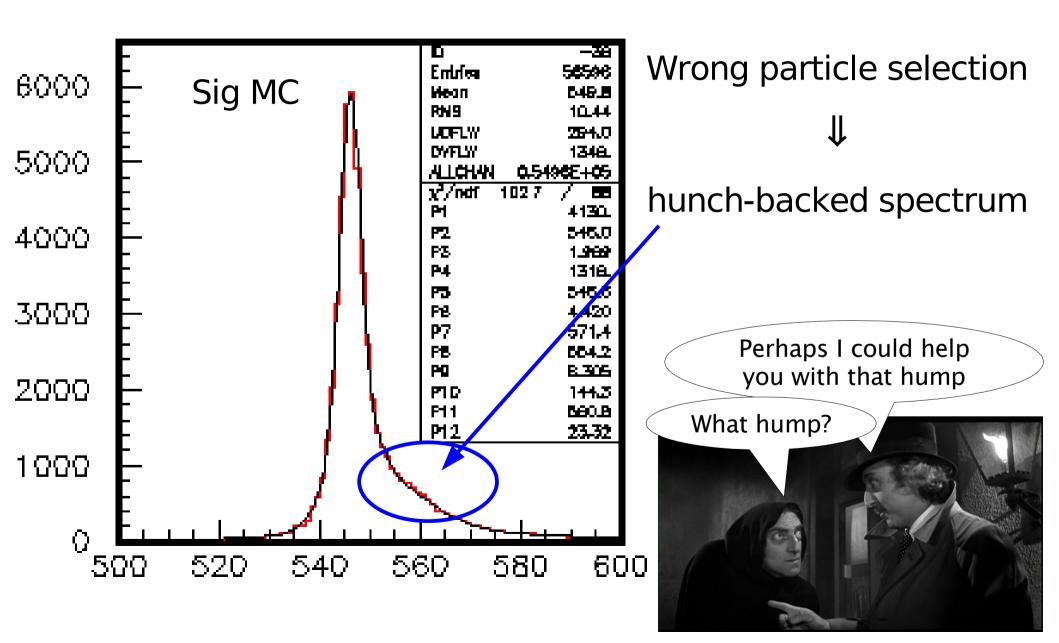
A lot of work has been done by Simona to restart the dst production

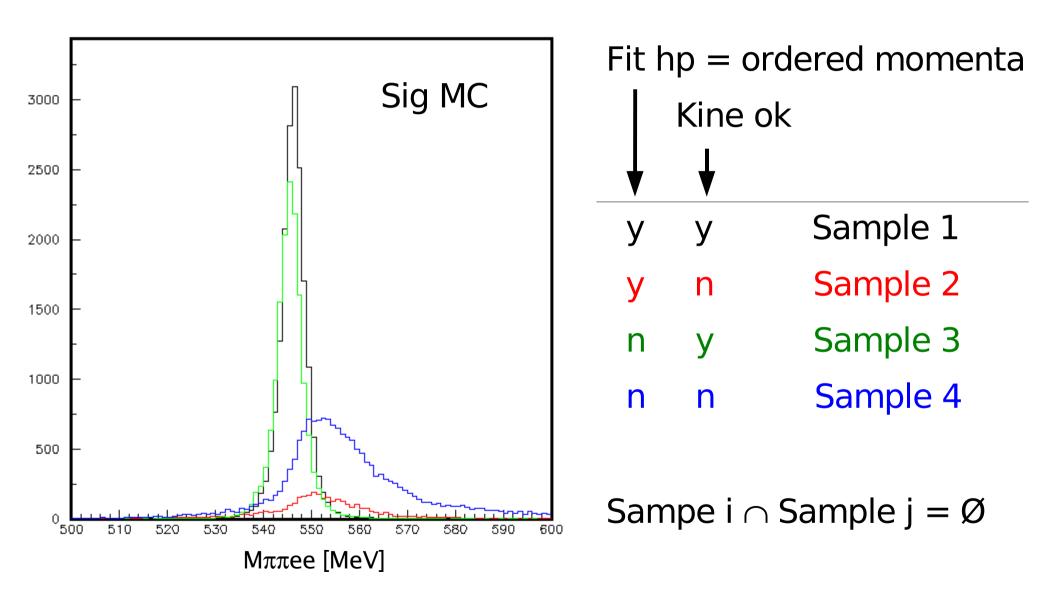
On May 25 the production of mrc dst restarted (tested, seems ok)

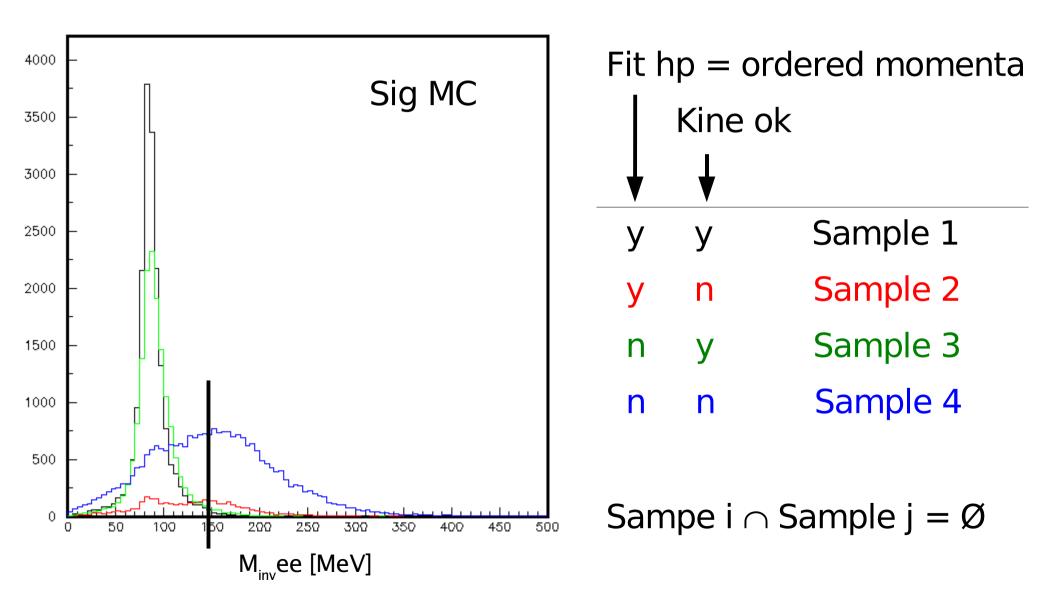
Production rate ~13 pb⁻¹/day

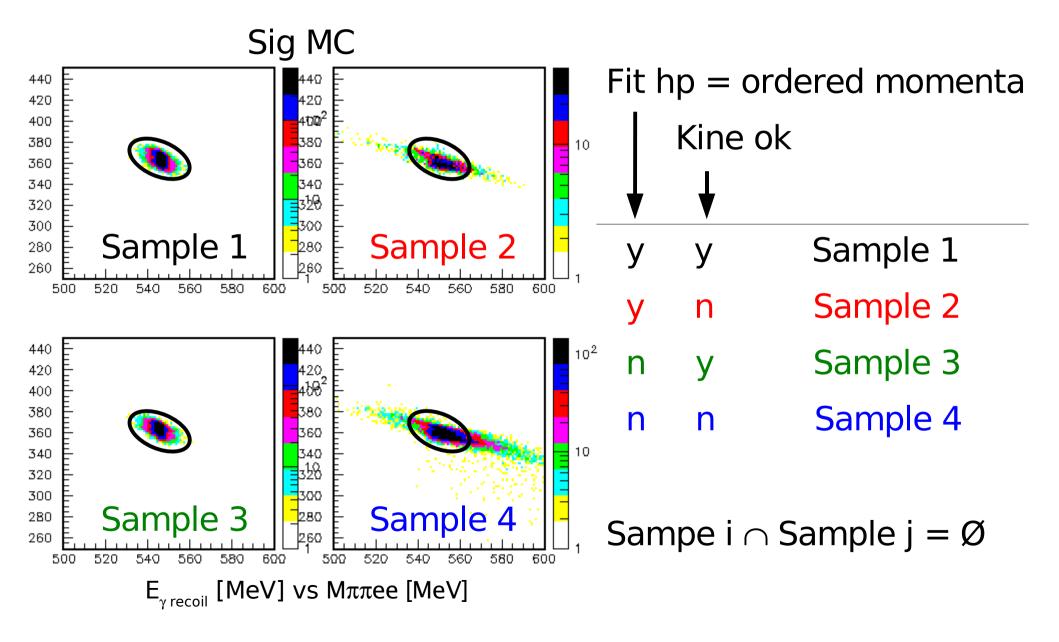
> 600 pb⁻¹ to be processed (~2 months)

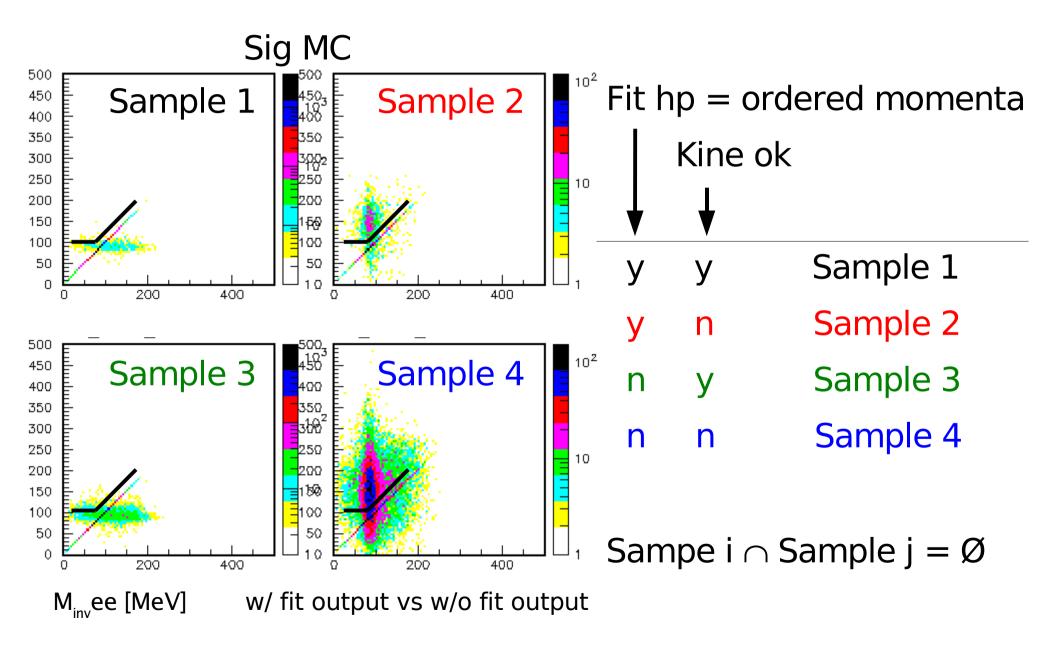
Requested to redo all dst mrc for 2005











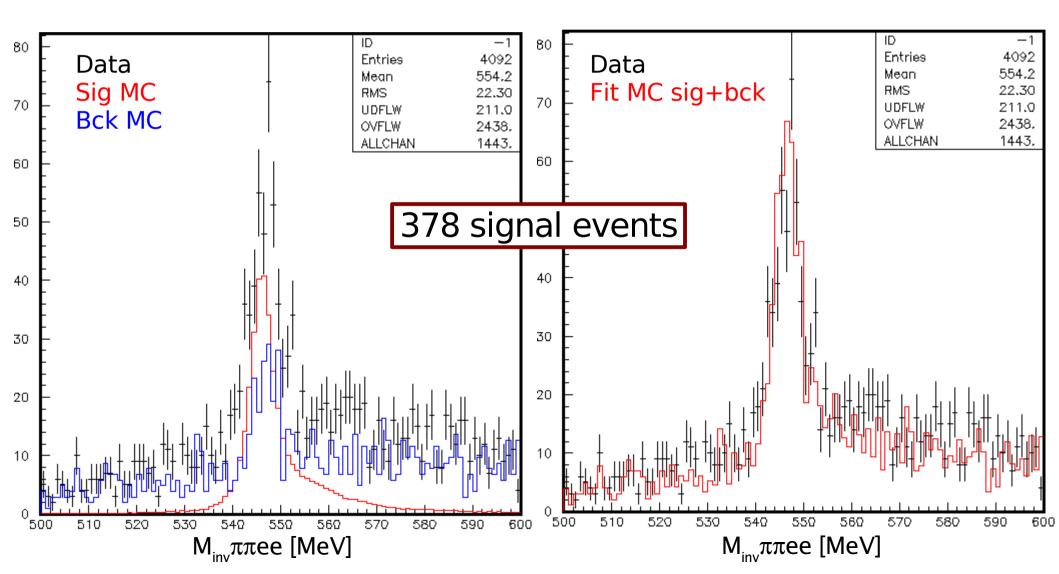
For "candidate wrong events" possible to look for a fifth track and redo the fit

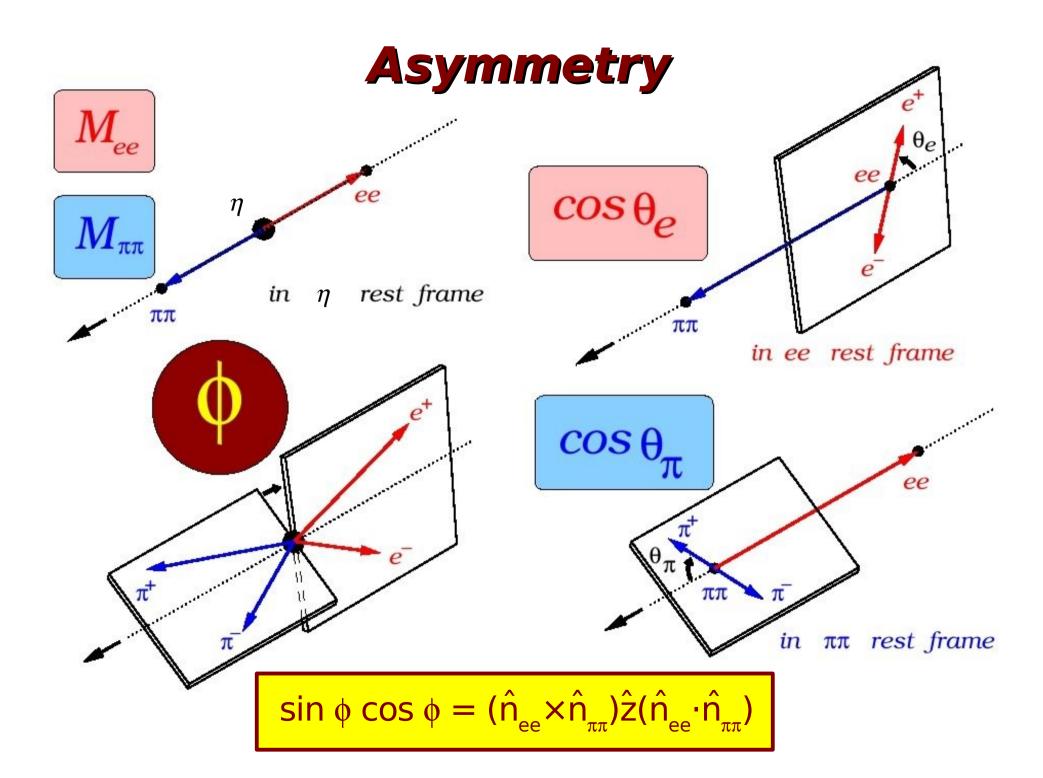
Already possible on signal, needed mrc dst for background

Work in progress

Towards the branching ratio

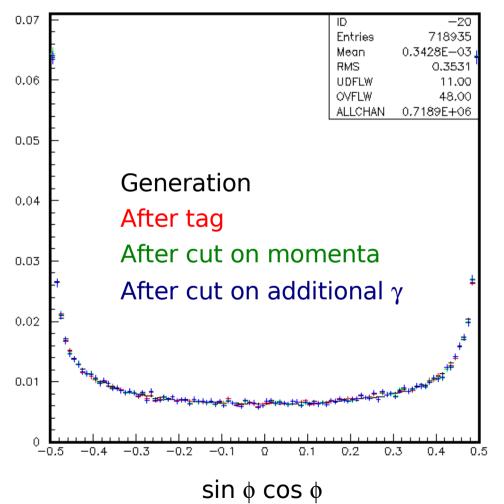
Fit of the data spectrum of $M_{inv}\pi\pi ee$ using the MC shape for signal and background

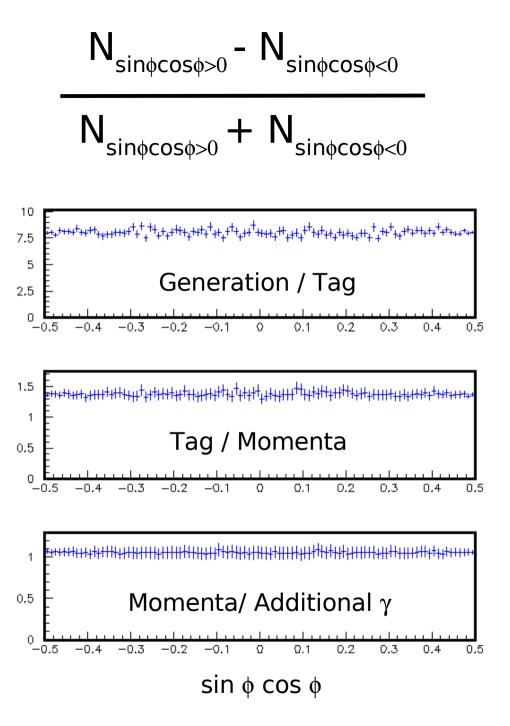






Sig MC Kine

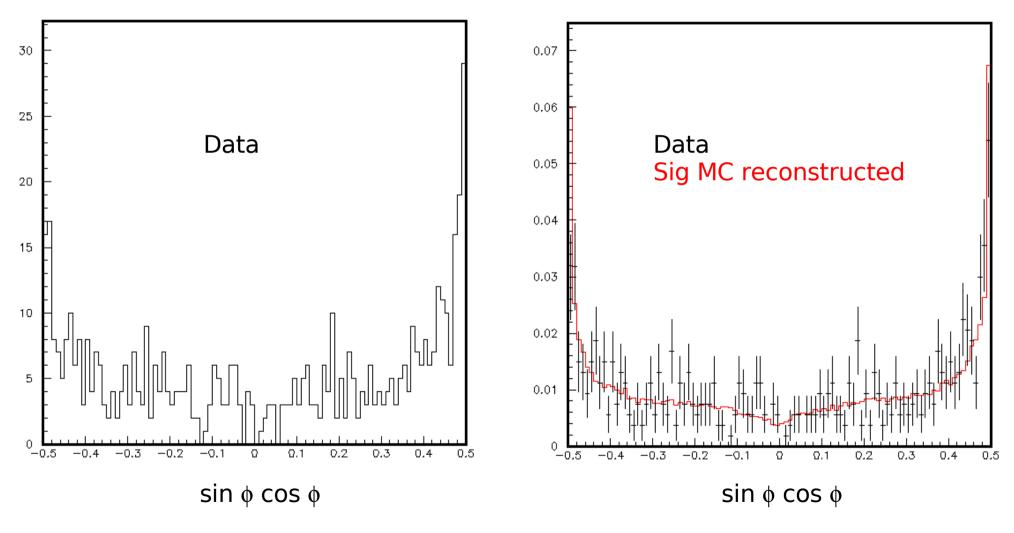




Distortion at each step

Asymmetry on data: first glance

Very rough cut: all events with $M_{inv}\pi\pi ee \in [540, 555]$ MeV



A>0 with $\Delta A/A \sim 20\%$