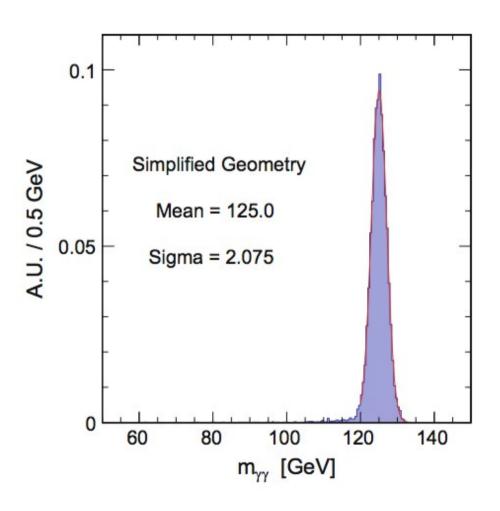
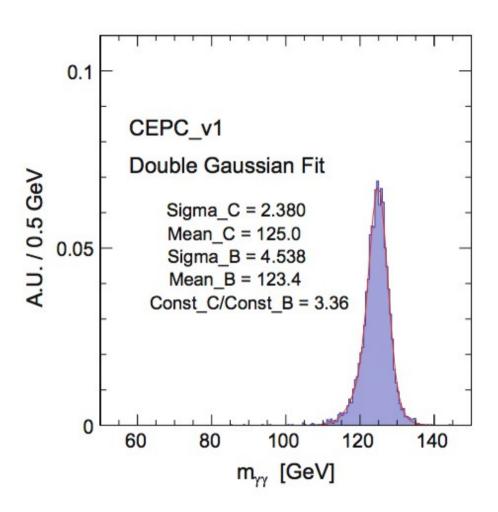


Inclusive Performance At Object level:

Lepton
Photon
Kaon
Tau
Jet
Jet Flavor

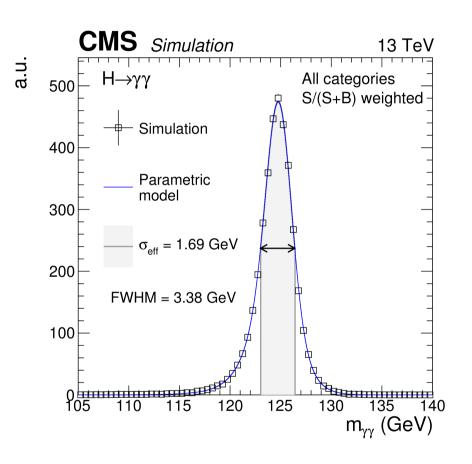
At H->gammagamma

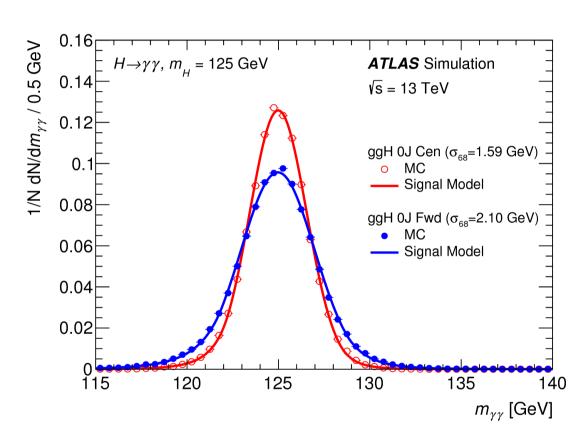




Sigma = 2-3 GeV

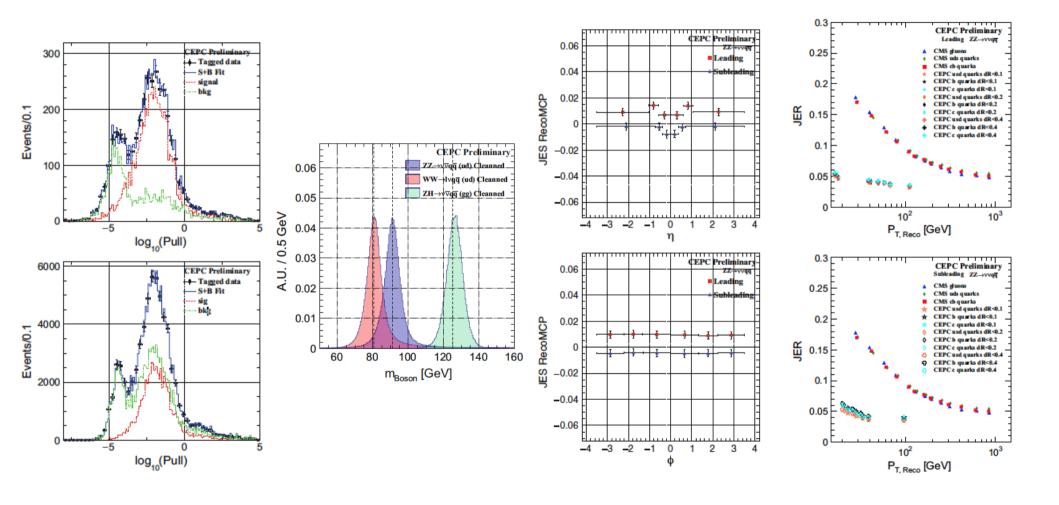
At H->gammagamma





Sigma = 1.6 - 2.1 GeV

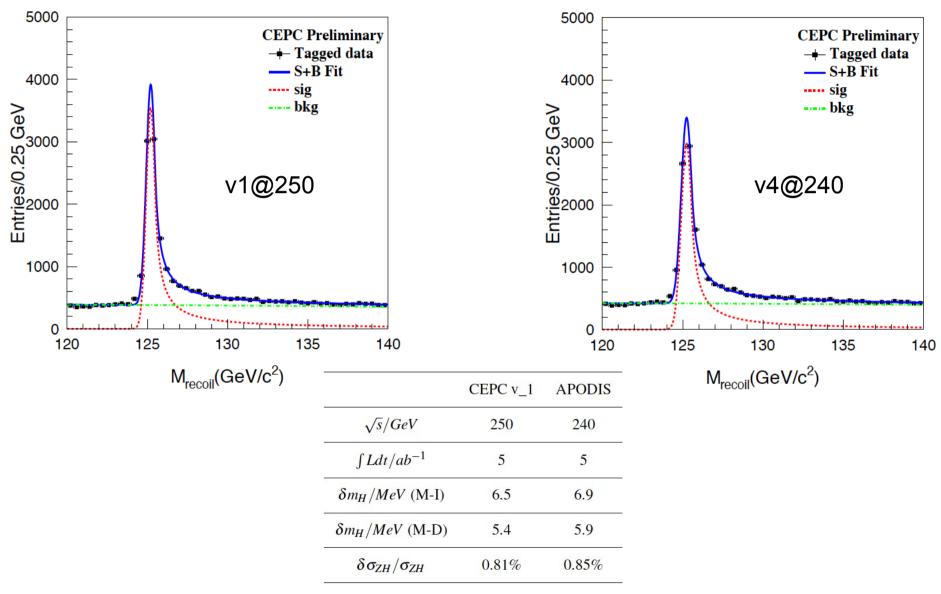
PFA Oriented: good tau/jet/lepton



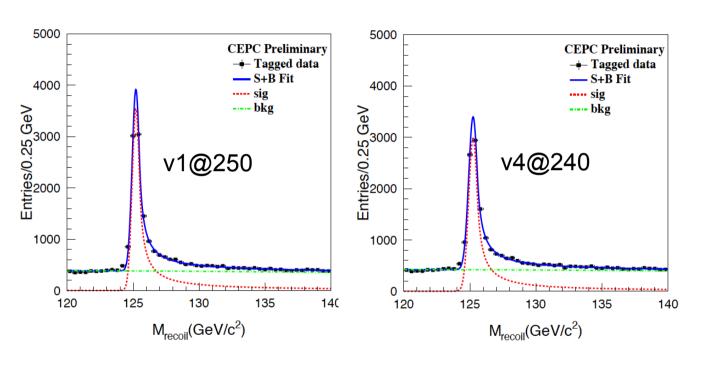
About Photon energy resolution

- H->gammagamma is one of the benchmark but not the most important Higgs property measurements at the CEPC
- Limited by the sampling fraction, the H->gammagamma resolution is 20~30% worse than the LHC experiments. However, the high granularity ECAL leads to a successful reconstruction of all physics objects, thus is VALID, and suitable for the CEPC program
- The investigation of better photon energy resolution, Software wise Or Hardware oriented, is an interesting & potentially influential study

Benchmark analysis: mumuH

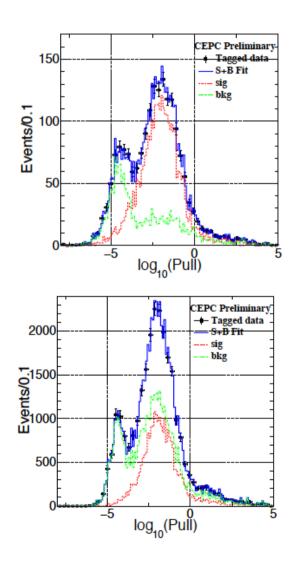


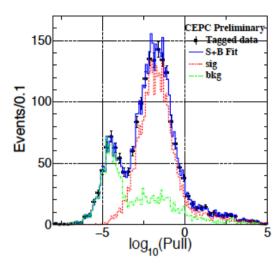
Benchmark analysis: mumuH

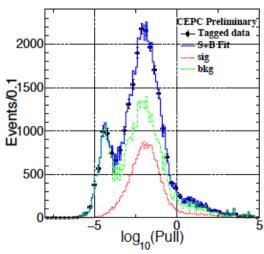


	CEPC v_1	APODIS
\sqrt{s}/GeV	250	240
$\int Ldt/ab^{-1}$	5	5
$\delta m_H/MeV$ (M-I)	6.5	6.9
$\delta m_H/MeV~(\text{M-D})$	5.4	5.9
$\delta\sigma_{\!Z\!H}/\sigma_{\!Z\!H}$	0.81%	0.85%

Benchmark: H->tautau







$\delta(\mu)/\mu$	PreCDR	CDR
$\mu^+\mu^-H$	2.26%	2.21%
e^+e^-H	2.72%	2.69%
vvH	4.29%	4.95%
qqH	0.93%	0.97%
Combined	0.81%	0.83%

Almost converged except
The background at CDR
Is still scaled from PreCDR
Sample

Need 1 more month to Fully converge