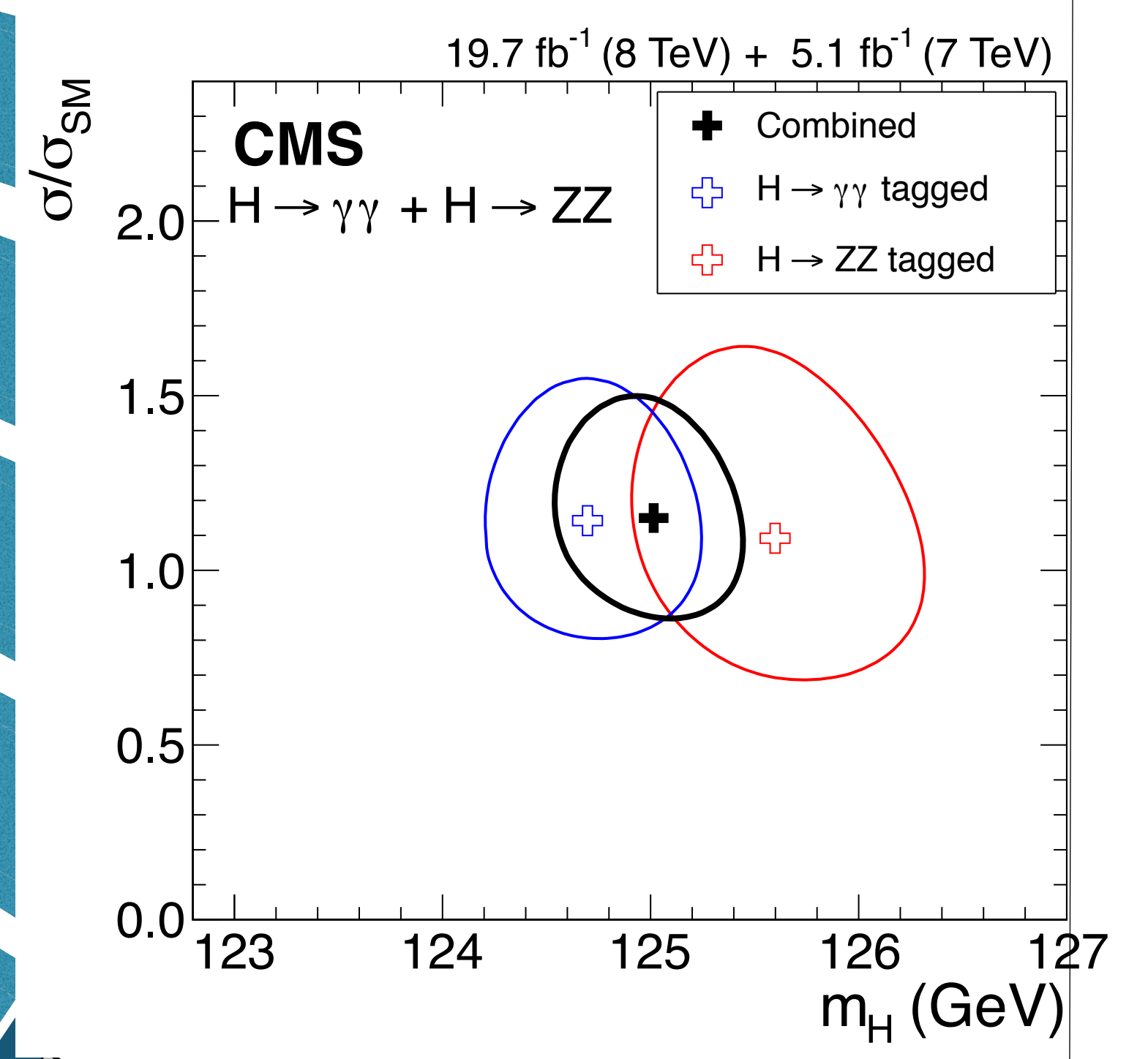
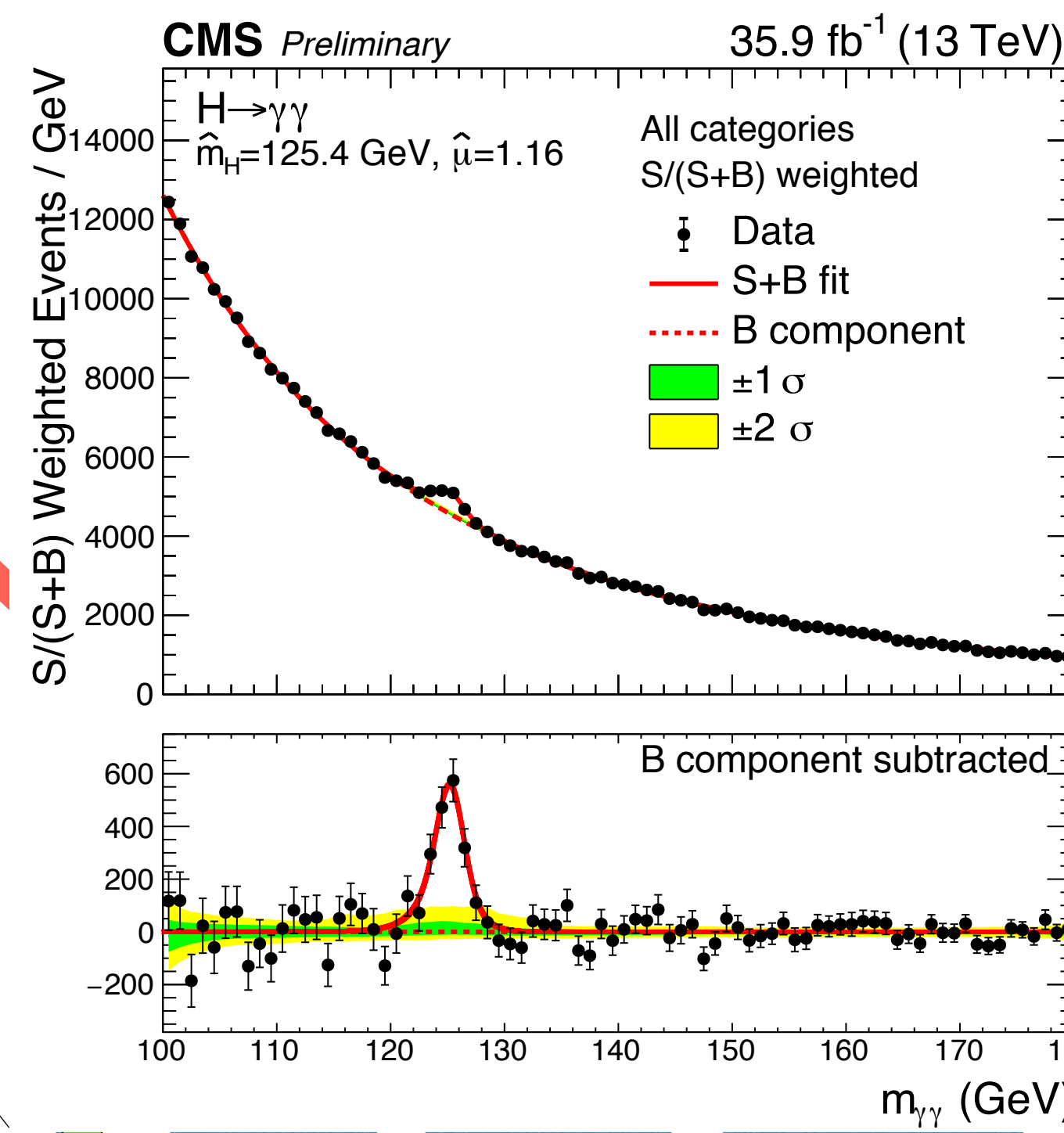
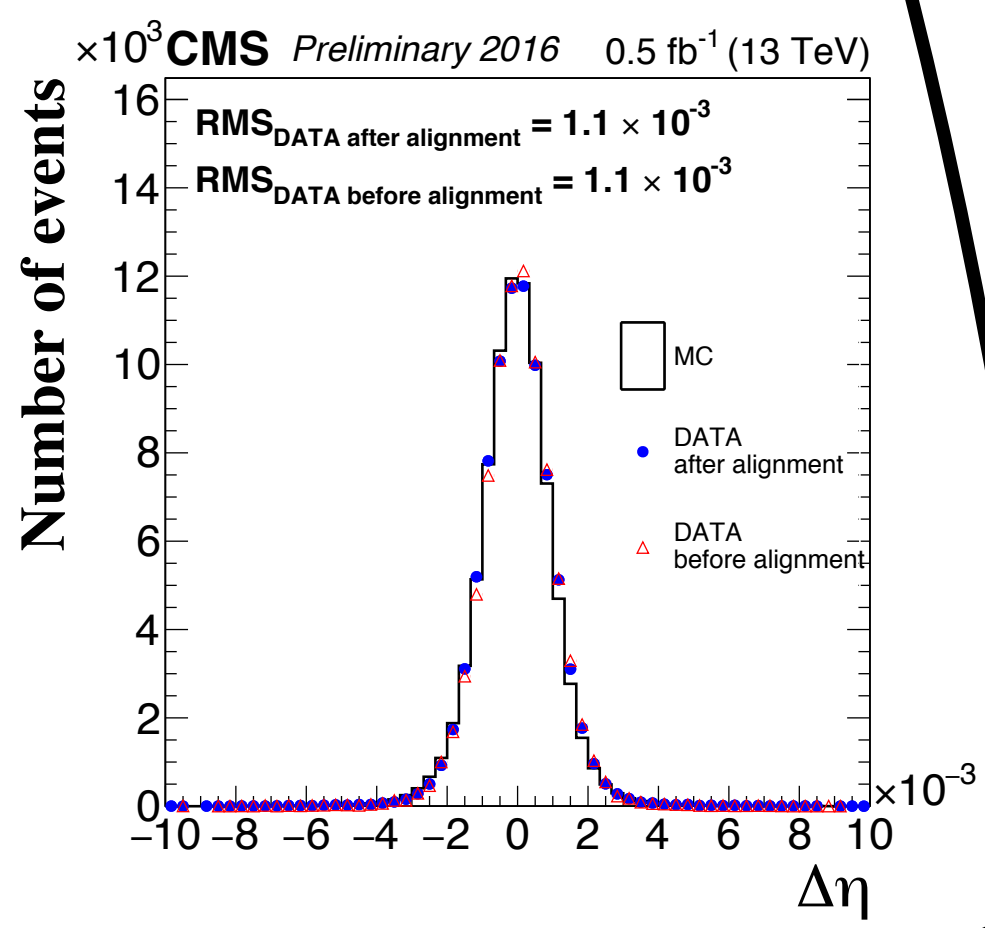


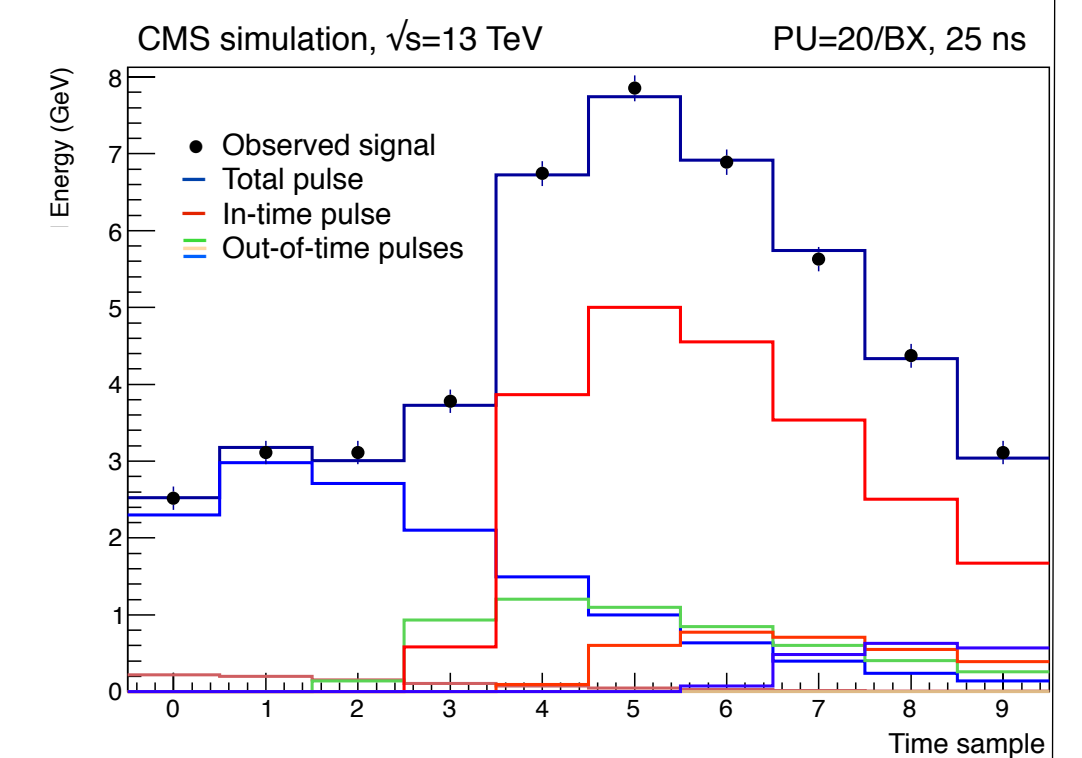
# Performance of the CMS electromagnetic calorimeter in Run II and its role in the measurement of the Higgs boson properties

Measurement of H properties crucially depends on ECAL energy and position resolution

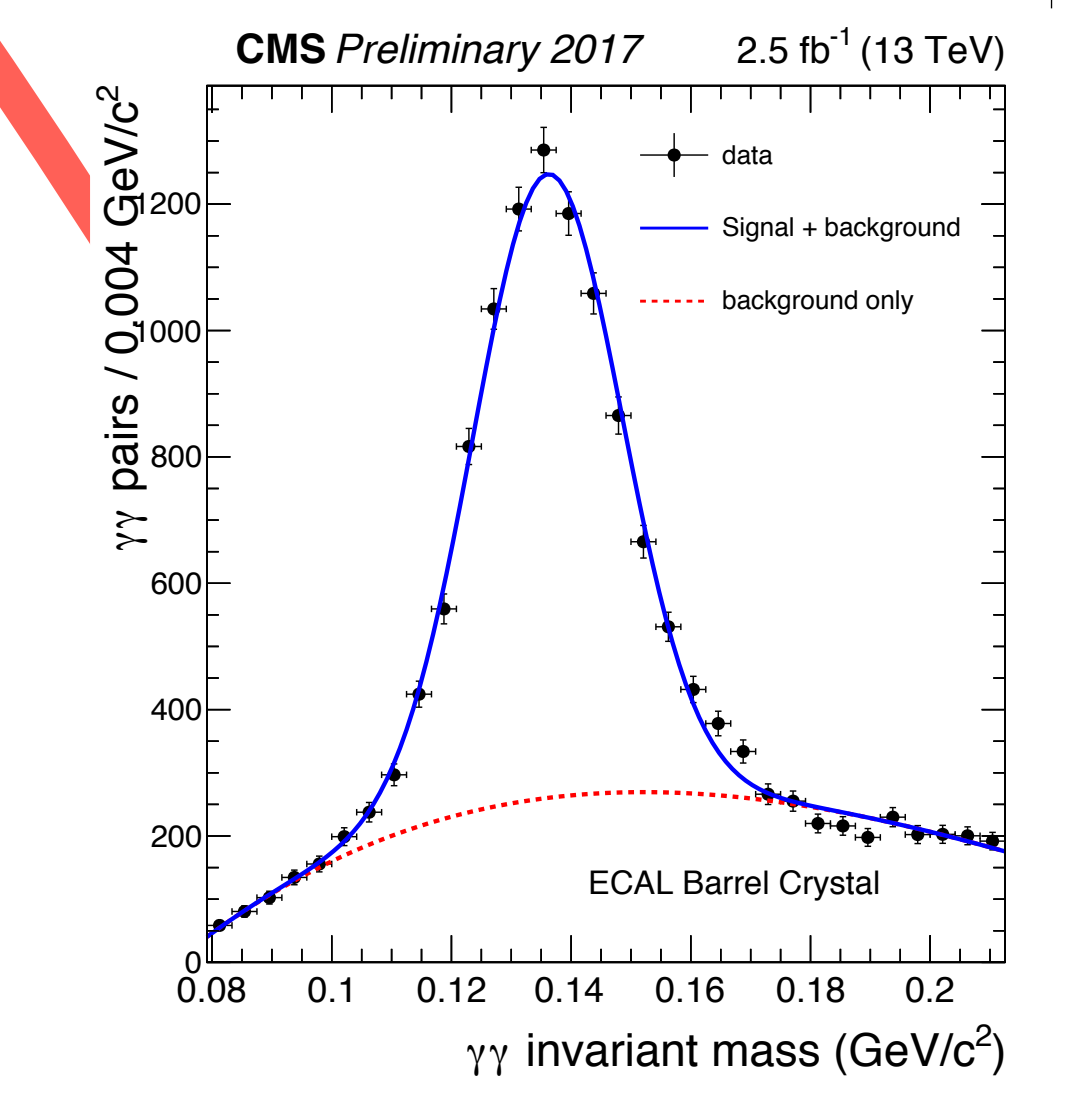
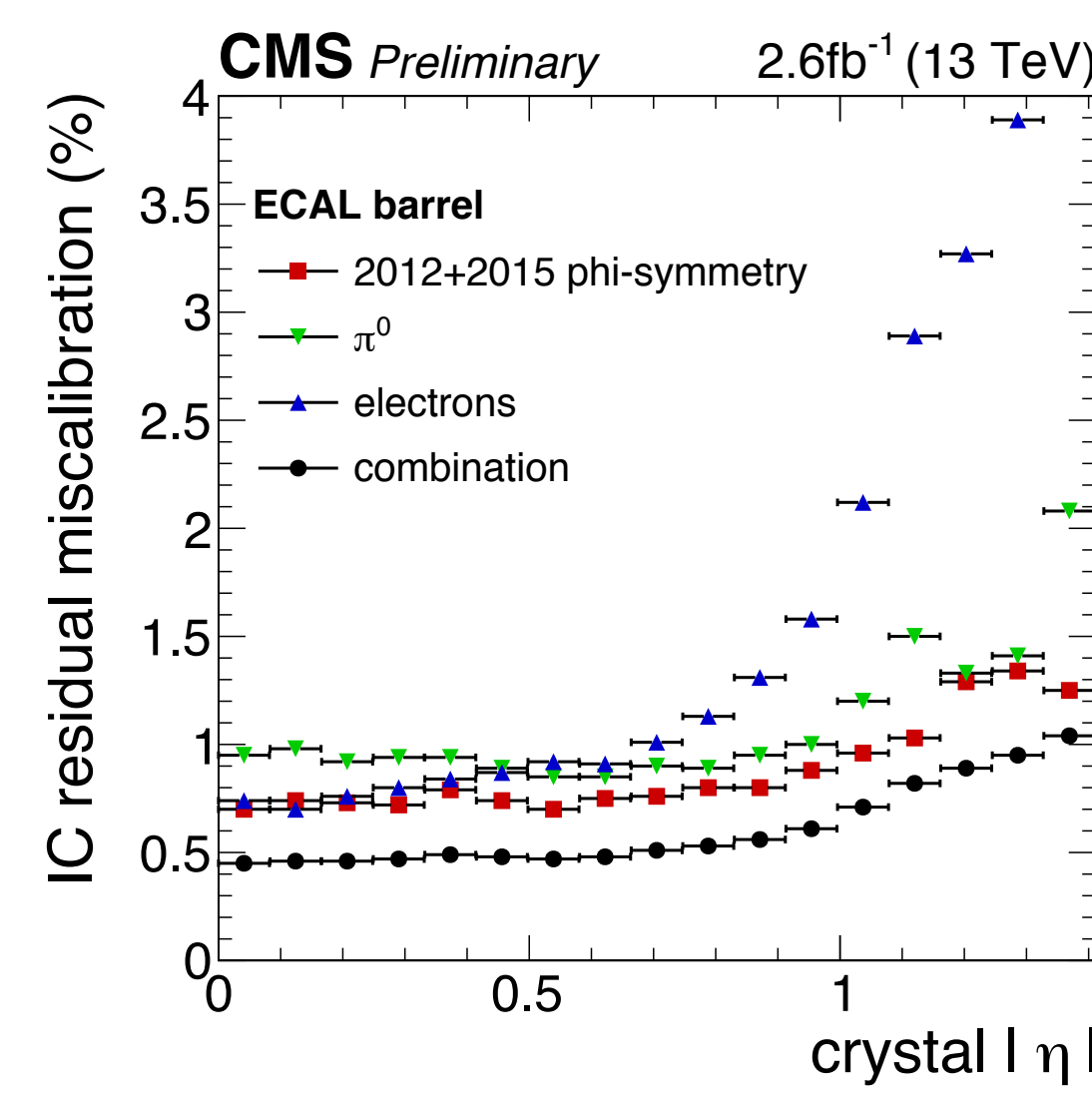
Position resolution depending on energy measurement performance



Pulse shape fitted with in-time pulse + up to 9 out-of-time pulses (multifit)

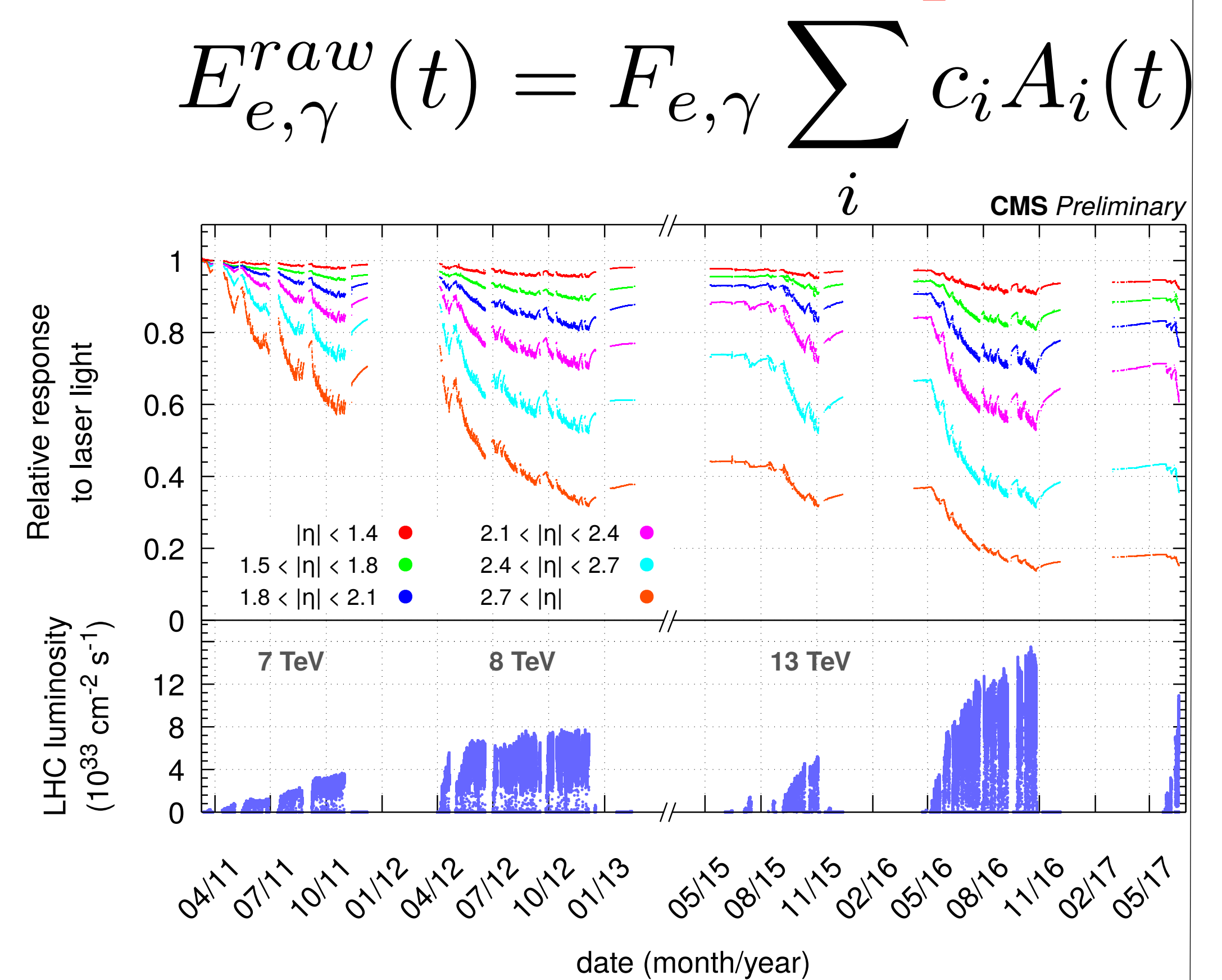


Electron Superclusters built out of clusters collected along phi strips. Response of channels equalised using intercalibration constants derived from phi-symmetry and pi0 decays

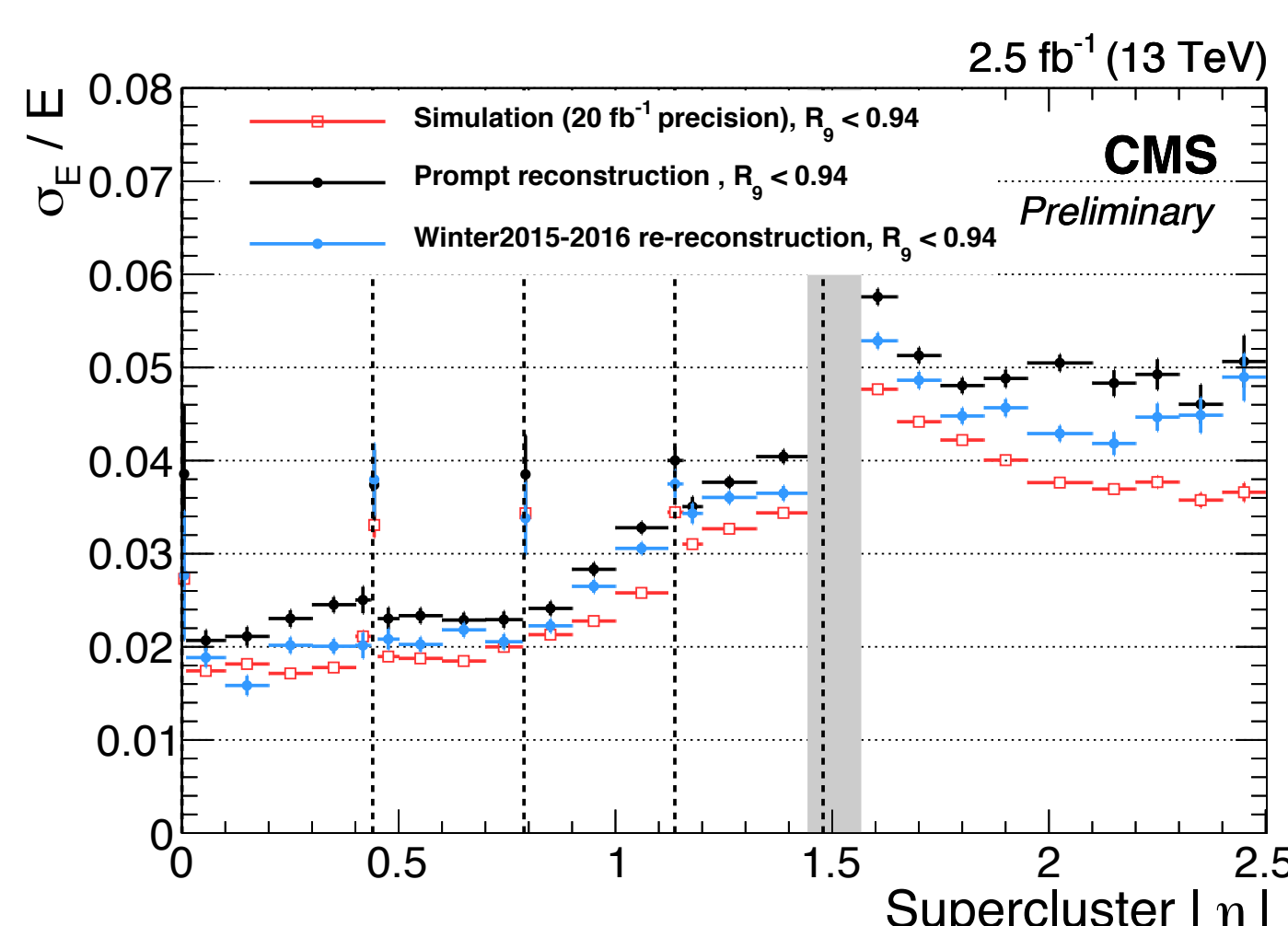


Giovanni Organtini on behalf of the CMS Collaboration

Time dependent amplitudes corrected for crystal transparency loss monitored with laser (partial recovery while not irradiated)



$$E_{e,\gamma}^{raw} = F_{e,\gamma} \sum_i c_i A_i(t) S_i(t)$$



Overall performance of calibration algorithms

Global scale obtained from constraints on Z peak

$$E_{e,\gamma} = G(\eta) F_{e,\gamma} \sum_i c_i A_i(t) S_i(t)$$

