

Observable	Definition
<i>Electron/photon common quantities (calorimeter-based)</i>	
$(E, p_T, \eta, \phi)$	ECAL SC four-momentum
$\sigma_{i\eta j\eta}$	Spread of the ECAL shower from the central crystal
$H/E$	Ratio of energy deposit in HCAL to ECAL
$I_E$	ECAL isolation
$I_H$	HCAL isolation
$r_9$	Relative energy deposit in 3x3 $\eta$ - $\phi$ matrix
seed ID	Crystal number of the central crystal
energy matrix	Energy deposit in each crystal of the SC
detector ID	Crystal number of each crystal of the SC
time matrix	Time stamp of each crystal of the SC
$s_{\text{minor}}$ and $s_{\text{major}}$	Second moments of the SC energy matrix
rechitZeroSuppression	Flag indicating events with nonzero reconstructed hits
<i>Electron quantities only (tracker-based)</i>	
track $(E, p_T, \eta, \phi)$	GSF track four-momentum
track $d_0$	Track $d_0$
track $d_z$	Track $d_z$
track $\chi^2/\text{dof}$	Reduced- $\chi^2$ of the track fit
track missing hits	Missing hits in the tracker inner pixel region
track $q$	Track charge
$\Delta\eta_{\text{in}}^{\text{seed}}$	Difference in $\eta$ between central ECAL crystal and inner track
$\Delta\phi_{\text{in}}$	Difference in $\phi$ between SC and inner track
$1/E - 1/p$	Difference between the inverse of SC $E$ and track $p$
$I_{\text{track}}$	Track isolation