

| Symbol                                    | Definition   |
|---|--|
| $p_T$                                     | Lepton $p_T$   |
| $ \eta $                                  | Absolute value of the lepton $\eta$  |
| $I_{\text{rel}}^{\text{fixed}}$           | Relative isolation using a fixed distance $\Delta R < 0.4$   |
| $I_{\text{rel}}^{\text{ch}}$              | Relative isolation using a $p_T$ -dependent distance and including only charged particles  |
| $I_{\text{rel}}^{\text{neu}}$             | Relative isolation using a $p_T$ -dependent distance and including only neutral particles  |
| $N_{\text{ch}}(\mathbf{j}_{\text{near}})$ | Number of charged particles associated with the jet  |
| $p_T^{\text{ratio}}$                      | Ratio of the lepton $p_T$ to the nearest jet $p_T$ , $p_T(\ell)/p_T(\mathbf{j}_{\text{near}})$ , or $1/(1 + I_{\text{rel}}^{\text{fixed}})$ if no nearest jet is found |
| $p_T^{\text{rel}}$                        | Component of the lepton momentum in direction transverse to the nearest jet, $p(\ell) \sin \theta(\vec{p}(\ell), \vec{p}(\mathbf{j}_{\text{near}}))$                   |
| $\text{DJ}(\mathbf{j}_{\text{near}})$     | DEEPIET score of the nearest jet   |
| $\log  d_{xy} $                           | Distance of closest approach of the lepton track to the PV in the transverse plane   |
| $\log  d_z $                              | Distance of closest approach of the lepton track to the PV in the longitudinal plane   |
| $d/\delta d$                              | Significance of the distance of closest approach of the lepton track to the PV   |
| $P_{\text{ID}}^e$                         | Electron ID discriminant   |
| $P_{\text{seg}}^\mu$                      | Muon segment compatibility   |