| Channel | Trigger | Lepton selection | Additional selection | |
|---|---|---|---|---|
| $\tau_e\tau_\mu$ | $p_T^\mu > 8\,\text{GeV}, p_T^e > 23\,\text{GeV}$ <br> or $p_T^\mu > 23\,\text{GeV}, p_T^e > 12\,\text{GeV}$ | $p_T^e > 15\,\text{GeV}, |\eta^e| < 2.4$ <br> $p_T^\mu > 15\,\text{GeV}, |\eta^\mu| < 2.4$ <br> $p_T^\ell > 24\,\text{GeV}$ for lead trigger leg | $I_{\text{rel}}(e) < 0.15$ <br> $I_{\text{rel}}(\mu) < 0.20$ | |
| $\tau_e\tau_h$ | $p_T^e > 25\,\text{GeV}$ | $p_T^e > 30\,\text{GeV}, |\eta^e| < 2.1$ <br> $p_T^{\tau_h} > 30\,\text{GeV}, |\eta^{\tau_h}| < 2.3$ | $I_{\text{rel}}(e) < 0.15$ <br> Med DEEPTAU WP | $m_T^e < 50\,\text{GeV}$ |
| $\tau_\mu\tau_h$ | $p_T^\mu > 22\,\text{GeV}$ <br> or $p_T^\mu > 19\,\text{GeV}, p_T^{\tau_h} > 20\,\text{GeV}$ | $p_T^\mu > 23\,\text{GeV}, |\eta^\mu| < 2.1,$ <br> $p_T^\mu > 20\,\text{GeV}$ <br> $p_T^{\tau_h} > 30\,\text{GeV}, |\eta^{\tau_h}| < 2.3$ | $I_{\text{rel}}(\mu) < 0.15$ <br> Med DEEPTAU WP | $m_T^\mu < 50\,\text{GeV}$ |
| $\tau_h\tau_h$ | $p_T^{\tau_h} > 35\,\text{GeV}, p_T^{\tau_h} > 35\,\text{GeV}$ | $p_T^{\tau_h} > 45(40)\,\text{GeV}, |\eta^{\tau_h}| < 2.1$ | Med DEEPTAU WP | |