| | |
|---|---|
| All searches | $p_{\mathrm{T}}(\mu) > 0.5\,\mathrm{GeV}$<br>$10 < p(\mu) < 1000\,\mathrm{GeV}$<br>$2 < \eta(\mu) < 4.5$<br>$\sqrt{p_{\mathrm{T}}(\mu^+) p_{\mathrm{T}}(\mu^-)} > 1\,\mathrm{GeV}$<br>$5 \leq n_{\mathrm{charged}}(2 < \eta < 4.5, p > 5\,\mathrm{GeV}) < 100$ (from same PV as $X$ ) |
| Prompt<br>$X \to \mu^+\mu^-$ decays | $1 < p_{\mathrm{T}}(X) < 50\,\mathrm{GeV}$<br>$X$ decay time $< 0.1\,\mathrm{ps}$<br>$\alpha(\mu^+\mu^-) > 1\,\mathrm{mrad}$<br>$20 < p_{\mathrm{T}}(b\text{-jet}) < 100\,\mathrm{GeV},\ 2.2 < \eta(b\text{-jet}) < 4.2$ ($X + b$ only) |
| Displaced<br>$X \to \mu^+\mu^-$ decays | $2 < p_{\mathrm{T}}(X) < 10\,\mathrm{GeV}$<br>$2 < \eta(X) < 4.5$<br>$\alpha(\mu^+\mu^-) > 3\,\mathrm{mrad}$<br>$12 < \rho_{\mathrm{T}}(X) < 30\,\mathrm{mm}$<br>$X$ produced in $pp$ collision (promptly produced $X$ only) |