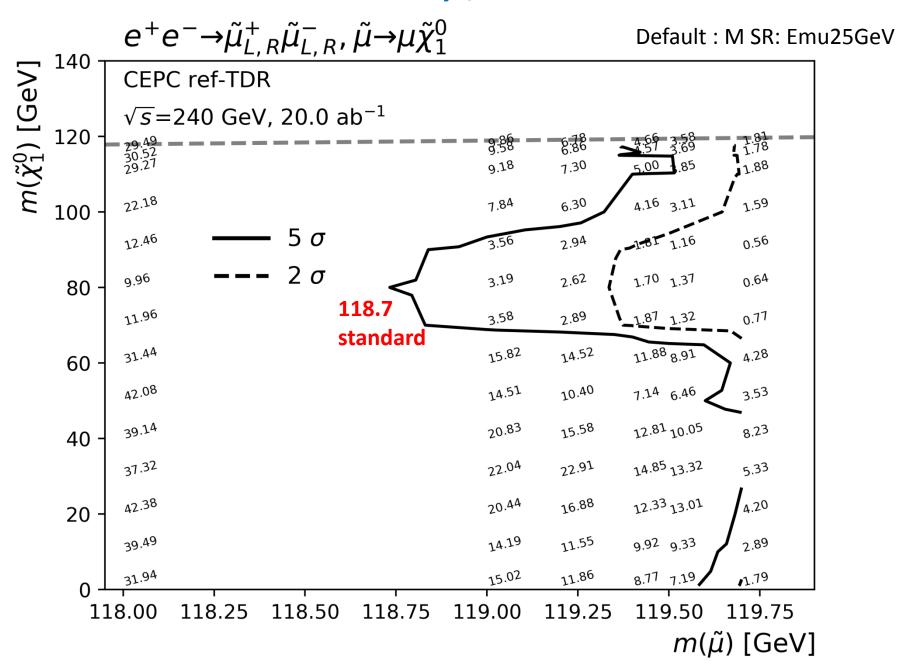
Error Study of Smu pair Analysis

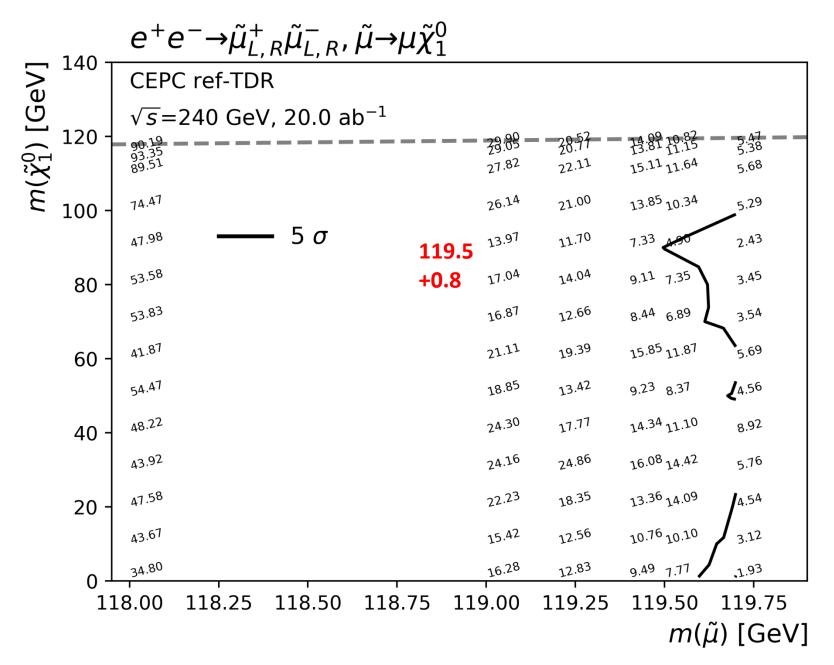
LYU Feng, LIANG Shiyi, ZHUANG Xuai, WU Minlin 16th/April/2025

1. Current stat. 5% sys, no muid Standard

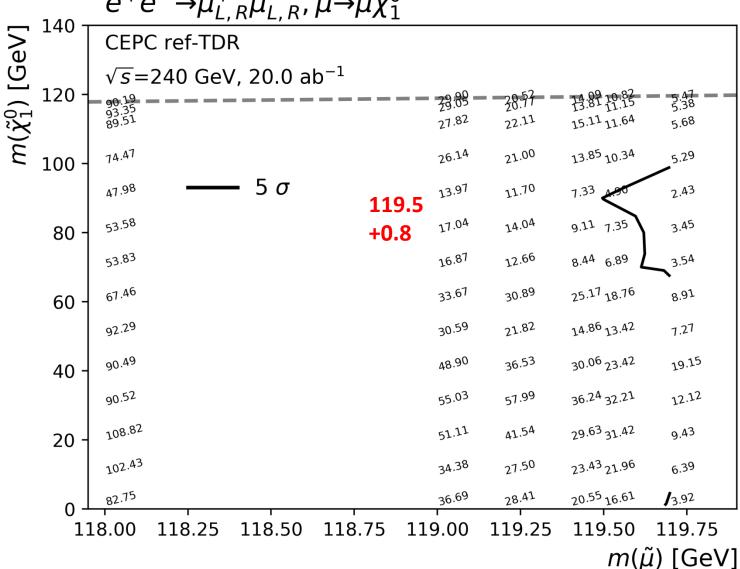


2. Current stat. ⊕ 0% sys, no muid

0% sys is important



3. 3% stat. \oplus 0% sys, no muid 3% stat less important $e^+e^- \rightarrow \tilde{\mu}_{L,R}^+ \tilde{\mu}_{L,R}^-, \tilde{\mu} \rightarrow \mu \tilde{\chi}_1^0$

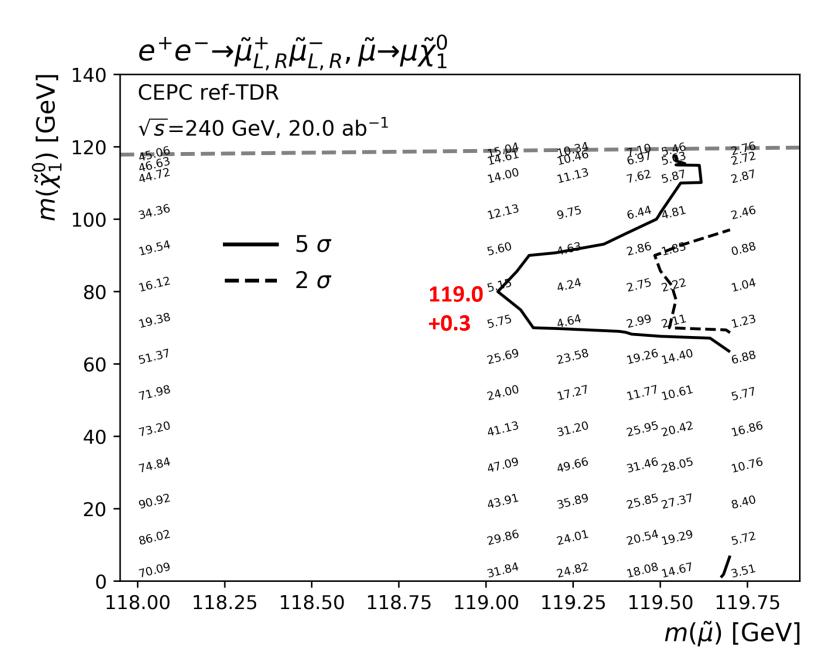


SR_H1,err,SR_H2,err,SR_H3,err,SR_H4,err,SR_M1,err,SR_M2,err,SR_M3,err,SR_M4,err,SR_L,err Current stat.

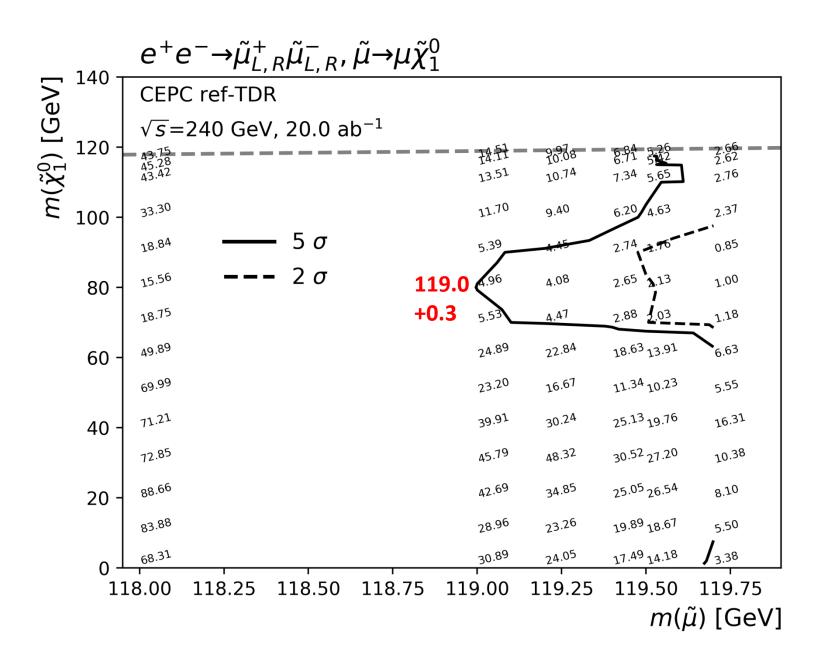
2115.62, 112.63,0.00, 0.00,1697.08, 93.32,328.50, 36.65,35272.26, 525.39,0.00, 0.00,40203.08, 522.54,91197.51, 814.20,27449.37, 453.85 \leq 3% stat.

2115.62, 63.47,0.00, 0.00,1697.08, 50.91,328.50, 9.855,35272.26, 525.39,0.00, 0.00,40203.08, 522.54,91197.51, 814.20,27449.37, 453.85

4. 3% stat. ⊕ 3% sys, no muid 3% sys is dominant



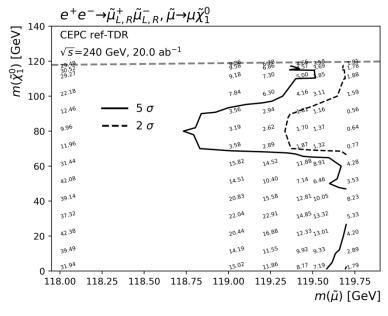
5. 3% stat. ⊕ 3% sys ⊕ muid 96% miud is not significant

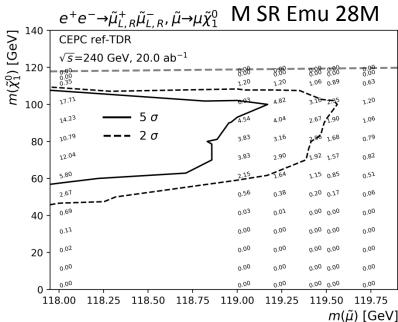


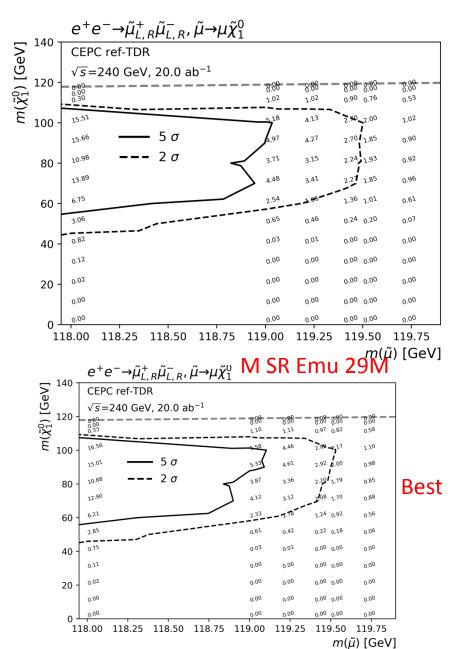
Emu Optimization: Default: current stat. , 5% sys

M SR Emu 25M

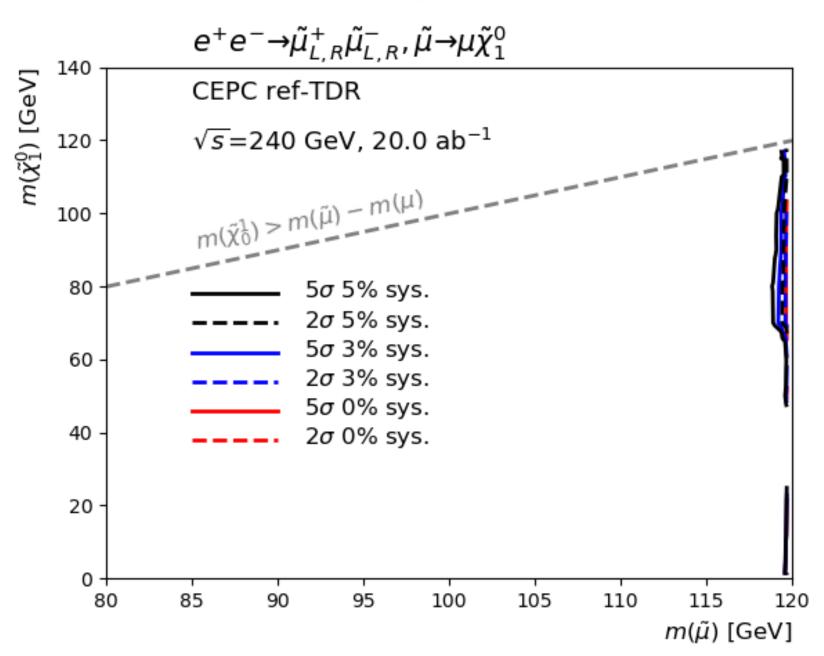








Final Result



Final Result: Enlarged

