

Discovering tauonium($S=1, L=0$) in $e^+e^- \rightarrow \mu^+\mu^-$ process

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Ditauonium is an exotic atom, and that is a bound state consisting of opposite-sign τ leptons by the QED interaction. We consider an impact of tauonium(1^3S_1 , 2^3S_1 and 3^3S_1) as an intermediates on $e^+e^- \rightarrow \mu^+\mu^-$ process. And smearing effect has a influence on signal at different experimental resolution. We estimate event distribution at $1fb^{-1}$ integrated luminosity.

Summary

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