

LEPP JOURNAL CLUB

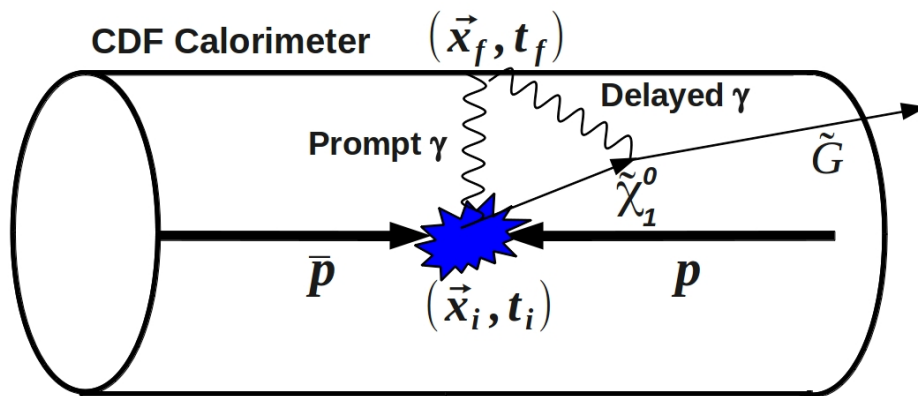
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Search for New Physics in the Exclusive Delayed $\gamma + \cancel{E}_T$ Final State

Many forms of Gauge Mediated Supersymmetry Breaking (GMSB) predict a $\tilde{\chi}_1^0$ with long lifetimes. In certain models with General Gauge Mediation, only the $\tilde{\chi}_1^0$ and \tilde{G} are kinematically accessible at the Tevatron. In these cases, current limits do not apply. Supersymmetric production would occur primarily through $h \rightarrow \tilde{\chi}_1^0 \tilde{\chi}_1^0 \rightarrow \gamma \tilde{G} \gamma \tilde{G}$. I will discuss the CDF search for long-lived $\tilde{\chi}_1^0$ in the exclusive delayed $\gamma + \cancel{E}_T$ final state and show preliminary results.



Tuesday

April 3, 12:15pm

301 Physical Sciences Building

(Pizza, 12:00pm)

