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A New Upper Bound on the ΔL=2 Hyperon Decay $\Xi^- \to p\mu^-\mu^-$. DURGA RAJARAM, Illinois Institute of Technology, HyperCP collaboration — Experiment E871 (HyperCP) at FNAL accumulated the world's largest sample of Ξ^- and $\overline{\Xi}^+$ hyperon decays. Although the primary goal of the experiment is the search for direct CP violation, it is possible to peform a sensitive search for rare and forbidden decays. We present results from a study of the strangeness-changing ΔL=2 decay $\Xi^- \to p\mu^-\mu^-$.

[X] Prefer Oral Session
[ ] Prefer Poster Session

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