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A New Upper Limit on the Lepton Number and Strangeness Violating Hyperon Decay $\Xi^- \to p\mu^-\mu^-$. DURGA RAJARAM, Illinois Institute of Technology, HyperCP Collaboration. — FNAL experiment E871 (HyperCP) has accumulated the world's largest sample of Ξ^- and $\overline{\Xi}^+$ hyperon decays. Though the main goal of the experiment is to search for CP violation, the large data-set also makes it possible to perform a highly sensitive search for rare and forbidden hyperon decay modes. We present preliminary results on 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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