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A new upper limit on the Lepton-Number-violating $\Xi^- \to p\mu^-\mu^-$ hyperon decay. DURGA RAJARAM, Illinois Institute of Technology, Chicago and the HyperCP Collaboration — Fermilab experiment E871 (HyperCP) collected the world's largest sample of hyperon decays. Though the main goal of the experiment is the search for direct CP Violation in Ξ^- and $\overline{\Xi}^+$ decays, the large data set makes it possible to perform a sensitive search for rare and forbidden hyperon decay modes. We report on a search for the ΔL=2 $\Xi^- \to p\mu^-\mu^-$ decay.

[X] Prefer Oral Session
[ ] Prefer Poster Session

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