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LUX HV Conditioning RACHEL MANNINO, Texas A&M University, LUX COLLABORATION — The discrimination between nuclear and electron recoils in the LUX experiment's two-phase Xe dark matter search detector is influenced by the achievable voltages and electric fields on the grid wires. To improve the sensitivity of the detector, a series of high voltage conditioning tests have been performed to increase the grid voltages. Results from both the conditioning of the grids in liquid xenon prior to Run03 and the conditioning of the grids in gaseous xenon prior to Run04 will be presented in this talk.

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