## Abstract Submitted for the APR18 Meeting of The American Physical Society

Search for nucleon decays with EXO-200 ADAM CRAYCRAFT, Colorado State Univ, EXO-200 COLLABORATION COLLABORATION — A search for instability of nucleons bound in  $^{136}\mathrm{Xe}$  nuclei is reported with 223 kg·yr exposure of  $^{136}\mathrm{Xe}$  in the EXO-200 experiment. Lower lifetime limits of  $3.3\times10^{23}$  and  $1.9\times10^{23}$  yrs are established for nucleon decay to  $^{133}\mathrm{Sb}$  and  $^{133}\mathrm{Te}$ , respectively. These are the most stringent to date, exceeding the prior decay limits by a factor of 9 and 7, respectively.

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