Abstract Submitted
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Turn-on of the EXO-200 Detector STEVEN HERRIN, SLAC National Accelerator Lab, EXO COLLABORATION — The Enriched Xenon Observatory (EXO) is a set of experiments designed to search for the neutrinoless double beta decay ($0\nu\beta\beta$) of Xe-136. Observation of $0\nu\beta\beta$ would indicate neutrinos are Majorana particles (indistinguishable from their own antiparticle) and provide evidence for physics beyond the standard model. The current experiment, EXO-200, uses 200 kg of isotopically-enriched xenon in a monolithic (source and detector of $0\nu\beta\beta$) time projection chamber (TPC) at the WIPP site in New Mexico. EXO-200 has successfully completed an engineering run and is preparing for physics runs. I will present some initial physics results from this engineering run and provide a look into the future of the experiment.

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