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

Measurement of the cosmic ray flux spectrum above 300 PeV with the Pierre Auger Observatory ALAN COLEMAN, Pennsylvania State Univ, PIERRE AUGER COLLABORATION COLLABORATION — The Pierre Auger Observatory observes the flux of cosmic rays over three decades in energy. This is possible by combining the measurements of a 1500 m and a 750 m surface detector arrays. The energy scale relies on the almost-calorimetric measurements of air showers performed with the fluorescence detector (FD) of the observatory. The precise measurement of the cosmic ray flux above 300 PeV is possible due to the recent improvement to the FD systematics and the increased exposure of the observatory (about 52000 km<sup>2</sup> sr yr). The spectrum is presented along with the recent measurements of the cosmic ray ankle and flux suppression.

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