

Abstract Submitted  
for the APR20 Meeting of  
The American Physical Society

**New insights on the origin of cosmic rays from Auger phase-1 grand finale and advancements from upcoming space probes of the highest energy particles (EUSO-SPB2 and POEMMA)<sup>1</sup>** LUIS ANCHORDOQUI, The Graduate Center, City University of New York — Auger data provide a compelling indication for a possible correlation between the arrival directions of the highest energy cosmic rays and nearby starburst galaxies. We investigate how this observation impacts our understanding of the cosmic ray origin and discuss what new perception and advancements will come from the looming NASA space probes EUSO-SPB2 and POEMMA.

<sup>1</sup>NSF PHY-1620661 and NASA 80NSSC18K0464

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Date submitted: 06 Jan 2020

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