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Constraining the Sources of UHECRs

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UHECRs are composed of intermediate-mass nuclei and have a composition evolution with energy that is roughly consistent with a Peters Cycle, such that the mean rigidity is less than 5 EV, even at relatively high energy. Deflections in the Galactic magnetic field are in general large, and identifying sources by angular correlations has been impossible so far. Nonetheless, a number of indirect constraints can help narrow the range of candidate UHECR accelerators, as I will discuss.

Primary author: FARRAR, Glennys (New York University)

Presenter: FARRAR, Glennys (New York University)

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