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## **Spectral Composition of Cosmic Rays in Galaxy Clusters**

*Wednesday, 13 August 2014 14:50 (25 minutes)*

We present cosmological simulations of galaxy clusters following the distribution of cosmic rays as they are injected, accelerated, and transported. Implications for X-ray, radio, and Sunyaev-Zel'dovich effect observations are discussed, in particular in the context of constraining ICM plasma properties near shock fronts.

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