



Contribution ID: 212

Type: Talk

## **【371】 Search for gamma-ray spectral lines from dark-matter annihilation with the DAMPE satellite**

*Friday 13 September 2024 13:30 (15 minutes)*

The annihilation of dark-matter particles may lead to the production of monochromatic gamma rays. In this contribution, the search for spectral lines in the gamma-ray spectrum using eight years of data collected with the space-borne Dark Matter Particle Explorer (DAMPE) is presented. To improve the event selection, we developed two machine-learning algorithms that outperform all the standard methods. No line signal is found between 5 GeV and 1 TeV in several regions of interest (ROI) for different dark-matter density profiles. The constraints on the velocity-averaged cross-section for the neutralino annihilation are estimated and compared with those obtained with the Fermi-LAT data.

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**Session Classification:** Nuclear, Particle- & Astrophysics (TASK)

**Track Classification:** Nuclear, Particle- and Astrophysics (TASK)