



Contribution ID: 181

Type: **Invited/Solicited talk in mini-symposium**

Non-thermal processes in relativistic outflows

Tuesday, December 12, 2023 4:40 PM (25 minutes)

Relativistic outflows are synonymous with non-thermal processes; the acceleration of energetic particles and their associated radiation. I will review Fermi-like mechanisms responsible for particle acceleration and their associated radiative signatures, focussing on particle acceleration occurring in steep gradient flow profiles, i.e. shocks and shearing flows. Further insights from recent laboratory experiments will be presented.

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Session Classification: Plasma Astrophysics