

Anisotropic diffusion of cosmic rays and the TeV-band cosmic ray anisotropy

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We calculate the time-dependent transport of cosmic rays from point like sources in the Galaxy, assuming it can be described as diffusion. We show that the surprisingly small anisotropy in the TeV band, as recently reported by IceCube and others, can be reproduced assuming a small radial diffusion rate, without assuming a uniform distribution of the sources in the Galaxy.

Primary author: Mr KUMAR, rahul (ben-gurion university)

Presenter: Mr KUMAR, rahul (ben-gurion university)

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- Rahul Kumar, Ben Gurion University

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