

Executive Summary of #722:  
Modeling of the TeV cosmic-ray anisotropy based on  
intensity mapping in an MHD-simulated heliosphere

What is this contribution about?

This presentation is about the study of the origin of the TeV cosmic-ray anisotropy based on the intensity-mapping method in an MHD model heliosphere using the experimental data of the Tibet AS $\gamma$  experiment.

Why is it relevant / interesting?

It is interesting because it could be possible to discuss the anisotropy outside the heliosphere by subtracting the influence of the heliospheric magnetic field.

What have we done?

We have advanced previous works by taking into account the rigidity spectra observed by the experiment and improving the modeling of the anisotropy on the outer boundary.

What is the result?

The anisotropy at the outer boundary has structures with angular scales as small as  $\sim 10^\circ$  and a bump in the power spectrum around  $l = 7 - 11$ .