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Heliospheric Tail Models

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In the tail direction of the heliosphere an anisotropy in the cosmic ray flux is observed by the large area telescopes. This anisotropy is partly explained by the modulation of cosmic rays in the tail region. But, most of the modeling of the large scale heliosphere is concentrated on the nose direction, because there are the in situ observations of the Voyager spacecraft available. The heliospheric tail physics is only sparsely addressed in literature. I will give an overview of heliospheric tail models and will discuss their observability as well as their theoretical advances and shortcomings. I will also shortly address astrospheres around hot stars and their possible influence on cosmic ray modulation.

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