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Cosmic ray fluxes inside and outside the heliosphere

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We will give an overview about the recent developments transport models of cosmic ray and their observations. Especially we will discuss new theories describing the recent observations of the Voyager spacecraft and study the role of adiabating heating and stochastic acceleration of the anomalous proton component. We will present results of the propagation of the latter beyond the heliopause and its consequences regarding the measurements of the local interstellar proton spectrum (LIS).