



Transport Models for High Energy Heavy Ion Collisions and Space Radiation Protection

Abstract: Transport models are used in different fields such as heavy ion collisions and radiation research. A Multi-Phase Transport (AMPT) model aims to provide a comprehensive kinetic description of high energy heavy ion collisions. It originated from the Cyclotron Institute more than a decade ago and continues to be improved. In this talk, I will first give an overview of the AMPT model and then present our recent work on anisotropic flows in heavy ion collisions, which challenges the prevailing hydrodynamics paradigm. I will also present our work on comparing different transport models for space radiation protection of astronauts.

September 12, 2017

2:30pm

50 Years of beam Seminar Series

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Refreshments will be served
at 2:15pm