



ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ

ОБЩЕИНСТИТУТСКИЙ СЕМИНАР

4 сентября 2007 г. (вторник)
Начало в 15.00

ЛТФ, ауд. им. Д.И.Блохинцева
(4й этаж)

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"High Energy Cosmic Ray Studies with Balloon-Borne Experiments"

Cosmic rays bring us information about the physical processes that accelerate particles to relativistic energies, about the effects of those particles in driving dynamical processes in our Galaxy, and about the distribution of matter and fields in interstellar space. The energy of these cosmic beams far exceeds energies produced by particle accelerators; Balloon-borne experiments are currently being used for understanding cosmic ray origin, acceleration and propagation, exploring the supernova acceleration limit, and searching for exotic sources such as dark matter and antimatter. Available results from on-going Balloon-borne experiments will be presented, and challenges for extending precision measurements to the highest energy practical will be discussed.