

4th HiSEP Special Seminar by Faculty of Science

Challenges in Astronomy ~The PeVatrons~

7/21 Fri. 13:00-14:30

Lecture Room 1
Faculty of Science



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高エネルギー宇宙
物理学に関わるお
話と大学生に向け
たアグレッシブな
メッセージを話し
ていただく予定

メキシコ
グアダハラ大学
宇宙物理学
フエンテ先生



The discovery of ultra-high energy gamma-ray sources thanks to highly sensitive observatories such as the High Altitude Water Cherenkov (HAWC) Observatory in Mexico, the Tibet AS-gamma Experiment in Tibet and leading by the University of Tokyo (Japan), and the Large High Altitude Air Shower Observatory (LHAASO) in China, marked the beginning of the sub-PeV and PeV era in gamma-ray astrophysics (1 PeV = 1,000,000,000,000,000 eV; the human eyes can observe at energies of 2-3 eV). This new astrophysics is closely related to the emerging topic of PeVatrons, natural particle accelerations that can accelerate particles at energies up to 1 PeV. In this talk I present an overview of the PeVatrons including its current state of art.