



千葉大学大学院理学研究科附属

ハドロン宇宙国際研究センター

International Center for Hadron Astrophysics

July ICEHAP Seminar

Date **July 25th Monday 14 : 00~16 : 00**

Location **ICEHAP Office (Engineering Research Bldg.1 Room609-1)**

By **Professor Kohta Murase , Pennsylvania State University**

Title

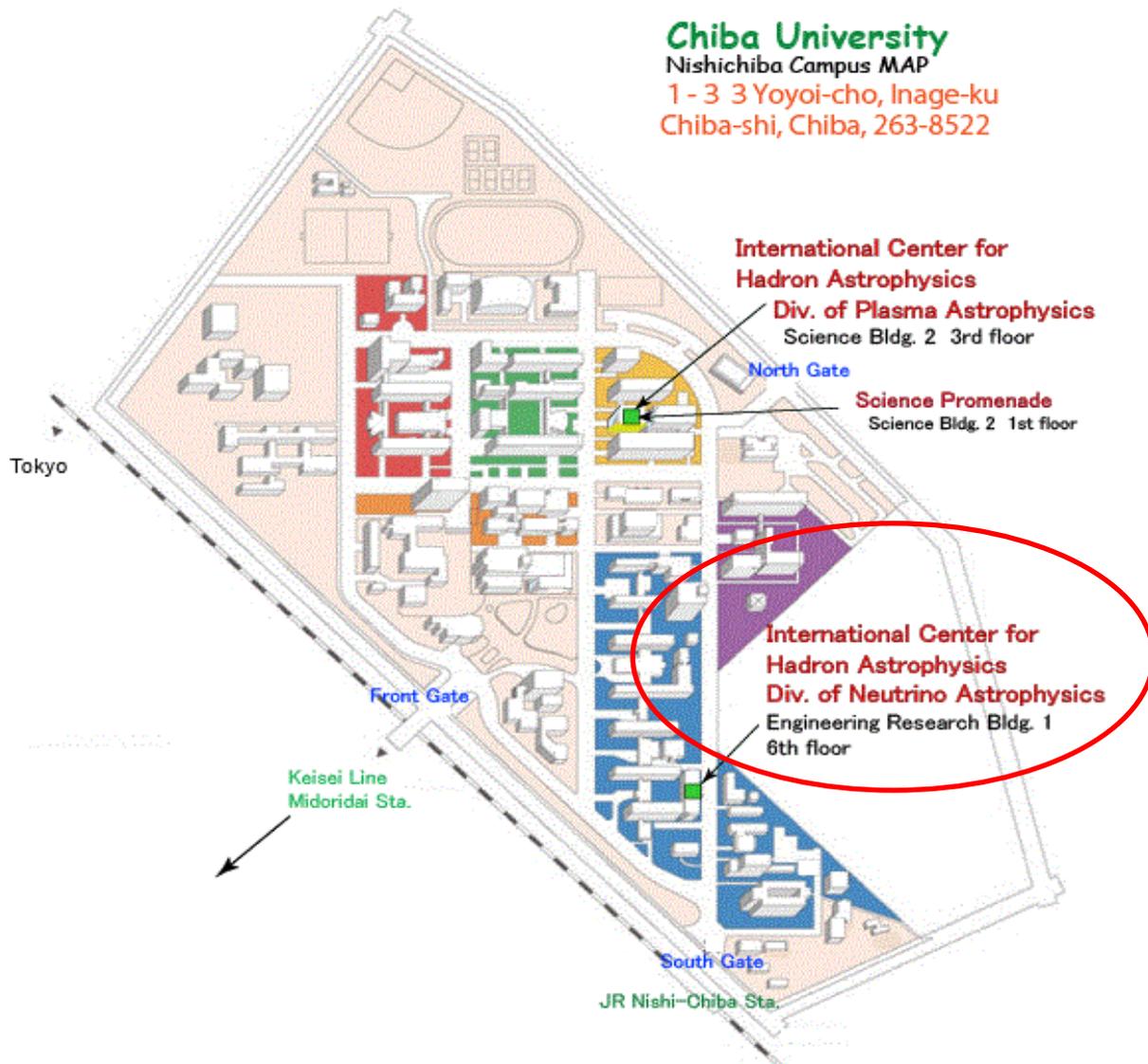
『Cosmic-ray reservoirs as multi-messenger sources』

Abstract

Starburst galaxies and galaxy clusters/groups serve as the storage rooms of cosmic rays. It was theoretically predicted that such cosmic-ray reservoirs are promising sources of neutrinos and gamma rays. Indeed, the predictions are consistent with the high-energy neutrino data measured by IceCube, and that they give a unified explanation of neutrinos, gamma rays and ultrahigh-energy cosmic rays. The models are very predictive. We discuss how we can confirm or falsify the models with current and future experiments.

Location: Neutrino Astrophysics Department

@ Engineering Research Bldg. 6th floor



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