独立行政法人理化学研究所　仁科加速器研究センター
第１１５回RIBF核物理セミナー
RIKEN Nishina Center for Accelerator Based Science
The 115th RIBF Nuclear Physics Seminar

# ALICE, the high energy heavy ion experiment at LHC


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The ALICE is a detector complex optimized for measuring the properties of strongly interacting matter created in high energy heavy ion collisions at the LHC. It has a capability to measure particles at wide kinematic range from 100 MeV/c to over 100 GeV/c together with excellent decay vertex determination and variety of particle identification techniques, and high performance triggers to measure rare probes such as J/psi, Upsilon and high momentum jets.

In this presentation, details of detectors in ALICE, those performances and potentials are shown. Some technical aspects of detectors and accelerators seen during first Pb+Pb and long p+p runs performed last year will be discussed. Then an overview of the obtained physics results from 7 TeV p+p and 2.76 TeV Pb+Pb programs will be presented along with a first attempt at the interpretation and comparisons with other experiments.


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*The seminar will be given in English.*


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