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理化学研究所原子核セミナー　*2005. 8. 22*

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題目： Massive Data Production on Distributed Computation Environment

∗ The seminar will be given in *English.*

日時： 2005年 8月 22日 (Mon.)　14:00 –

場所： RIKEN Main Bldg. 2F Seminar Room

Abstract

Current research in nuclear and particle physics takes place in the form of experiments, when the data are taken during the experiment run and are stored on the data storage for the off-line processing. The amount of data taken may be on the order of terabytes up to petabytes in the case of bigger projects. Future experiments (eg. LHC experiment, CERN) are anticipated to produce exabytes of data. It is not possible to produce this quantity of data on a single PC. Therefore the clusters are used for the data productions and large storage silos as a place where the data can be saved safely. Many of the issues have already been solved. One of the issues is the management of the data production from the user's (physicist) and developer's (software engineer) point of view. This talk presents a basic overview of the solution how to manage the computation, so-called data production, on distributed environment with focus on cluster usage. The part of the talk is a case study how the data production is managed on COMPASS experiment in CERN.

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