

Cyberinfrastructure for High Energy Physics in Korea

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KISTI (Korea Institute of Science and Technology Information) in Korea is the national headquarter of supercomputer, network, Grid and e-Science. We have been working on cyberinfrastructure for high energy physics experiment, especially CDF experiment and ALICE experiment. We introduce the cyberinfrastructure which includes resources, Grid and e-Science for these experiments. The goal of e-Science is to study high energy physics anytime and anywhere even if we are not on-site of accelerator laboratories. The components are data production, data processing and data analysis. The data production is to take both on-line and off-line shifts remotely. The data processing is to run jobs anytime, anywhere using Grid farms. The data analysis is to work together to publish papers using collaborative environment such as EVO (Enabling Virtual Organization) system.

We also present the activities of FKPPL (France-Korea Particle Physics Laboratory) which is the joint laboratory between France and Korea for Grid, ILC, ALICE and CDF experiments. Recently we have constructed FKPPL VO (Virtual Organization). We will present the applications of this VO.

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