## §1. Reconstruction of Network for LHD Experiment Remote Participation System

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The Remote Participation System through the high-speed network, Super-SINET, has been built from 2002. The High Temperature Plasma Center, Univ, of Tokyo was connected to NIFS to perform collaboration for superconductivity study by MPLS (MultiProtocol Label Switching) 1Gbps in March 2002. In order to perform collaboration for LHD experiment, the Dep. of Energy Engineering \& Science of Nagoya Univ. was connected in April 2003, the Institute of Advanced Energy of Kyoto Univ. in October 2003, and the Art, Science and Technology Center of Kyushu Univ. in April 2003 by MPLS method with 1 Gbps , respectively. There was a schedule which connects three universities (Dep. of Quantum Science and Energy Engineering of Tohoku Univ., Research Laboratory for Nuclear Reactors of Tokyo Institute of Technology, and Dep. of Mechanical System Engineering of Hiroshima Univ.).


Fig. 1 Schematic view of LHD Experiment Remote Participation System

