

# ILDG7 report from Japan

Plans for data generation & archiving on ILDG

Hideo Matsufuru

High energy accelerator Research Organization (KEK)

8 Dec 2005

# National lattice datagrid in Japan

## JLDG: Japan Lattice DataGrid

- *now in preparation to start-up*
- major LQCD sites (Tsukuba, KEK, Kyoto, Hiroshima, etc.)
- backbone: HEPNET-J/sc – uses Gbps network SuperSINET
- shares configurations (LQA, new configs)
  - now: mirroring between file servers
  - future: middleware for uniform file system – investigation started
- extends LQA for ILDG

# Computer resources

- Tsukuba Univ.
  - PACS-CS (June 2006-) 14.3 Tflops
  - VPP 5000 0.8 TFlops
- KEK (March 2006-)
  - Blue Gene/L 57.3 TFlops
  - SR11000 2.15 TFlops
- Osaka Univ. (not QCD dedicated, 1/4-1/6 available)
  - SX-5 1.3 Tflops -> 24+ TFlops (Jan 2007-)
- Yukawa Inst., Kyoto Univ. : SX-8 1 TFlops (Jan 2006-)
- Hiroshima Univ. : SR11000 0.7 TFlops

# Data generation plan

## Large scale projects

- **PACS-CS Collab. (mainly uses PACS-CS)**
  - Tsukuba, Hiroshima, ...
  - $N_f=2+1$ , NP improved Wilson, Iwasaki gauge
- **JLQCD Collab. (mainly uses BG/L at KEK)**
  - KEK, Tsukuba, Kyoto, Hiroshima
  - Dynamical overlap fermions (actions/parameters not yet fixed)

Generated confs will be available to JLDG and ILDG eventually  
(Access policy under discussion).

Other collaborations in Japan (QCD-TARO, Kanazawa, Kyoto, etc.)  
will also be invited to JLDG.