# Worldwide LHC Computing Grid Tier-2 Workshop in Asia and EU-IndiaGrid Workshop on High Energy Physics Applications

Friday, 1 December 2006 - Monday, 4 December 2006

Tata Institute of Fundamental Research

# Book of Abstracts

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**Introduction** / **0**

## Welcome and workshop goals

**Corresponding Author:** sunanda.banerjee@cern.ch

Welcome by Dr S. Banerjee, Director of the Bhabha Atomic Research Centre, followed by a brief introduction to the workshop by Sunanda Banerjee (TIFR) and Les Robertson (CERN - LCG Project Leader)

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## Summary of the Experiment Computing Models

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## Summary of the Experiment Computing Models

Brief overview by each experiment of their computing model with an emphasis on how this maps on to their Asian sites

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## Overview of networking for LCG sites in Asia

Overview of the current and planned research networking infrastructure in Asia with reference to the LCG sites.

Measurements of performance between Asian Tier-2 sites and ASGC

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## Free slots for topics that have arisen during the workshop

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## EU - India Networking

Status and plans for EU - Inida networking

**Site Status Reports** / **8**

## Melbourne, Australia (ATLAS)

**Corresponding Author:** mlarosa@physics.unimelb.edu.au

**Site Status Reports** / **9**

## IHEP Beijing, China (ATLAS, CMS)

**Corresponding Author:** ycheng@cern.ch

**Site Status Reports** / **10**

## Wuhan, China (ALICE)

**Corresponding Author:** xucc@iopp.ccnu.edu.cn

**Site Status Reports** / **11**

## TIFR, Mumbai, India (CMS)

**Corresponding Author:** pvd@tifr.res.in

**Site Status Reports** / **12**

## VECC, Kolkata, India (ALICE)

**Corresponding Author:** tsamanta@veccal.ernet.in

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## New Zealand (CMS)

**Corresponding Author:** david.krofcheck@cern.ch

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## KEK, Japan

**Corresponding Author:** go.iwai@kek.jp

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## Univ. Hiroshima, Japan (ALICE)

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## Pakistan - CMS Federation

**Corresponding Author:** adeel@ncp.edu.pk

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## Taiwan - ATLAS & CMS Federations

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## Taiwan - CMS Federation

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## Sejong, Korea (ALICE)

**Corresponding Author:** chang.yeong.choi@cern.ch

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## Kyungpook, Korea (CMS)

**Tutorials on installing, configuring and tuning services - Part 1 / 21**

## Workload Management System (WMS)

**Corresponding Author:** horng-liang.shih@cern.ch

**Tutorials on installing, configuring and tuning services - Part 1 / 22**

## Information System (IS)

**Corresponding Author:** horng-liang.shih@cern.ch

**Tutorials on installing, configuring and tuning services - Part 2 / 23**

## The WLCG Light-weight Disk Pool Manager (DPM)

**Corresponding Author:** sophie.lemaitre@cern.ch

This tutorial will explain how to install, configure, tune and run an SRM-enabled storage element suitable for WLCG Tier2 sites.

**Tutorials on installing, configuring and tuning services - Part 2 / 24**

## The WLCG reliable File Transfer Service (FTS)

**Corresponding Author:** paolo.badino@cern.ch

This tutorial will present the File Transfer Service with an emphasis on the Tier2 point of view, e.g. information on how to define and control the various channels of interest to a given Tier2 site.

<P> It will present a summary of the FTS admin workshop (October 18 at SARA) in terms of best practices

**Tutorials on installing, configuring and tuning services - Part 2 / 25**

## Grid Level Monitoring

**Corresponding Author:** judit.novak@cern.ch

Grid Level Monitoring through the Site Availability Monitoring (SAM) framework

**Tutorials on installing, configuring and tuning services - Part 2 / 26**

## Site Level Monitoring

**Corresponding Author:** min17502@gate.sinica.edu.tw

Tools and techniques for site-level monitoring of the core services

**Tutorials on installing, configuring and tuning services - Part 2 / 27**

## Debugging of FTS transfer problems

**Corresponding Author:** paolo.badino@cern.ch

Tools, tips and techniques for debugging FTS transfer and configuration problems

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## test

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## Tunning Systems for TCP/IP Performance on High Latency Networks

**Author:** Mark Bowden[1]

[1] *FNAL*

**Corresponding Author:** bowden@fnal.gov

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## ATLAS Computing Model and Worldwide Operations

**Author:** Roger JONES[1]

[1] *LANCAS*

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## Discussion

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## ATLAS Operations at Tier-2s

**Author:** Roger JONES[1]

[1] *LANCAS*

Discussion session on general operations issues.

**ATLAS Tutorials** / **33**

## Distributed Data Management Operations

**Author:** Alexei Klimentov[1]

[1] *A*

Tutorial on the ATLAS DDM system and how to operate it.
Current status and foreseen evolution.

**ATLAS Tutorials** / **34**

## Distributed Analysis Tutorial

**Author:** Chun Lik Tan[1]

[1] *University of Birmingham*

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## EU-India Grid Project

Summary of the goals and status of the EU-India Grid Project

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## KISTI, Korea (ALICE)

**Corresponding Author:** hwang@kisti.re.kr

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## ICEPP, the University of Tokyo, Japan (ATLAS)

**Corresponding Author:** matunaga@icepp.s.u-tokyo.ac.jp

**ASGC Regional Operations Centre** / **38**

## Overview of the ASGC Tier-1 Centre and its Grid Services

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## Issues on interoperability

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## Workshop Conclusions

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## Status of the Indian Certificate Authority

**Corresponding Author:** murthy@magnum.barc.ernet.in

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## Scientific collaboration between the European Commission and India

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## (no title)

Review of the gLite middleware;
Review of the Workload management system ;

Review of Basic Data Management Operations:
Discussion

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## Review part I

Review of the gLite middleware;
Review of the Workload management system ;
Review of Basic Data Management Operations:
Discussion

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## Review part II

Review of EGEE/gLite information services;
Review of Monitoring services;
Discussion.

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## Open discussion on application requirements and needs

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## Plans and Activities in the final year of preparation

**Co-author:** Ian Fisk Fisk [1]

[1] *FNAL*

**CMS Tutorials** / **51**

## DBS/DLS

**Author:** Lee Lueking[1]

[1] *FERMILAB*

**Corresponding Author:** lueking@fnal.gov

**CMS Tutorials** / **52**

## Prod_Agent

**Author:** Peter Elmer[1]

[1] *PRINCETON UNIVERSITY*

**CMS Tutorials** / **53**

## CRAB

**Author:** Ian Fisk[1]

[1] *Fermi National Accelerator Laboratory (FNAL)*

**CMS Tutorials** / **54**

## PhEDEx

**Author:** Chia-Ming Kuo[1]

[1] *Department of Physics*

**CMS Tutorials** / **55**

## Trivial File Catalog

**Author:** Peter Elmer[1]

[1] *PRINCETON UNIVERSITY*

**CMS Tutorials** / **56**

## Frontier

**Author:** Pandurang Vishnu Deshpande[1]

[1] *Tata Institute of Fundamental Research (TIFR)*

**CMS Tutorials / 57**

## Software Setup

**Author:** Peter Elmer[1]

[1] *PRINCETON UNIVERSITY*

**CMS Computing Model and Operation / 58**

## Introduction to the CMS Computing Model

**Author:** Lothar Bauerdick[1]

[1] *FERMILAB*

CMS Computing model with a concentration on the role of the Tier-2

**CMS Computing Model and Operation / 59**

## Introduction to CMS Data Management and Monitoring

**Author:** Stefano Belforte[1]

[1] *Univ. + INFN*

Intro to data management concepts

**ALICE Tutorials / 60**

## AliRoot tutorial

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## ALICE Grid Tutorial

**Author:** Andreas Joachim Peters[1]

[1] *CERN*