

# FCPPL Computing Project Meeting Notes

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## Introduction

These are the notes of the virtual meeting held on September 30th 2013 about the status and perspectives of the FCPPL computing project.

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## Agenda

<https://indico.in2p3.fr/conferenceDisplay.py?confId=8940>

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## Attendees

**IHEP:** CHEN Gang, ZHANG Xiaomei, SHI JingYan, CHEN YaoDong, HE Miao, Fabio HERNANDEZ

**CC-IN2P3:** Ghita RAHAL, Vanessa HAMAR

**CPPM:** Andrei TSAREGORODTSEV, KAN WenXiao

*Secretary:* Fabio HERNANDEZ

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## Notes

1. An instance of DIRAC is deployed at IHEP. The web interface can be reached at <http://dirac.ihep.ac.cn>. This instance is fully functional and is configured with the same resources as the DIRAC instance used in production in France for France-Grilles. However, those two instances are independent and are not interconnected.
2. Currently, the sites configured in the DIRAC@IHEP instance are: CPPM (Marseille), EGI, CC-IN2P3 (Lyon), IHEP-CC (Beijing). However, those sites have not been recently tested to verify that their grid interfaces available to DIRAC are actually functional.
3. A BOINC server is also installed at IHEP and is functional. It is interfaced with DIRAC@IHEP so it can receive jobs from DIRAC and execute them in a volunteer campus grid and get back the results to DIRAC. This is an ongoing work conducted by WenXiao at CPPM.
4. One of the initial goals was to connect to DIRAC@IHEP some Chinese sites using the GOS middleware, which does not seem to exist anymore. Also, the possibility for connecting Shenzhen supercomputing center had been discussed. The question whether these sites are still interested/interesting for this project is raised.
5. Reminder: a specific instance of DIRAC is currently being used for the BES III experiment at IHEP with success. Several millions of simulated events have been produced by the experiment using this platform during the last few months. It is agreed that it is not within the framework of this FCPPL project to merge those two instances of DIRAC.

6. Since DIRAC is deployed, the main task now is to operate the system, build a service on top of it and attract potential users. One important task is to make this tool known to potential users, by organizing tutorials and helping users getting familiar with the system.

Andrei is planning to travel to Beijing before the end of 2013 and we could take this opportunity to organize a tutorial targeted at potential users. Vanessa, in her role as administrator of the DIRAC instance of France-Grilles, is also available to help giving a tutorial to the people responsible for the administration of DIRAC at IHEP.
7. HE Miao, representing the DayaBay experiment, wonders to what extent DIRAC is relevant for an experiment using a single site. One of the goals of the tutorials is to show the flexibility given by DIRAC which allows an experiment to exploit the resources of one or multiple sites, and even of a campus grid, without additional work for the experiment.

HE Miao also mentions that currently there is about 10 to 20 people working on computing for DayaBay but the future Juno experiment is expected to be a factor from 100 to 1000 larger than DayaBay. Currently there are several people working on simulation for Juno and they could be interested in the possibilities that DIRAC offers. Since some of the people involved in DayaBay are also involved in BES III, the experience acquired by those individuals can be easily shared for the benefit of both experiments.
8. Andrei mentions that there is a related project which aims at using DIRAC for a science gateway collaboration. In simple words, DIRAC@IHEP would be used behind a web portal for managing jobs submitted through the portal on behalf of the users. This was already briefly discussed with Gang. IHEP could contribute by allowing its instance of DIRAC to power this portal.
9. We agreed to start organizing a hands-on tutorial at IHEP for about 10 to 20 people. We will invite people from DayaBay, Juno and TREND experiments to join. Andrei is happy to be the instructor for this tutorial and Vanessa volunteered to help with it. The ideal target date is November.
10. The final dates of the tutorial in Beijing will be decided by e-mail after the Chinese national holiday, which ends on October 7th.