



**MICE Collaboration**

## **Status of MC production on the grid**



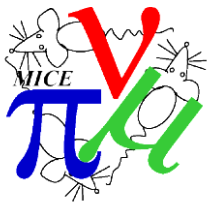
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*MICE collaboration meeting 48, 29<sup>th</sup> of June 2017.*



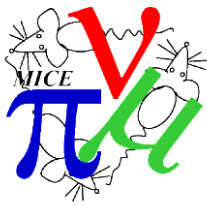
# Outline



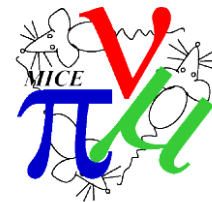
- Introduction
- Reminder: MCproduction on the grid information pages
- Migration from WMS to DIRAC
- Productions done since last CM
- Conclusions



# Introduction



- The MC production on the grid includes G4BeamLine simulation and G4 Detector simulations using MAUS.
- MAUS G4 detector simulation production, using already made G4BL libraries, was done upon request with no delays, since March last year.
- As of March this year, the G4BeamLine production was restarted on the grid.



- **Information about finished and running MCproductions on the grid:**  
<http://micewww.pp.rl.ac.uk/projects/analysis/wiki/MCProduction>
- **Information ( **and also as examples** ) of MCproduction Requests**  
<http://micewww.pp.rl.ac.uk/projects/analysis/wiki/MCProductionRequests>
- Information about MCproduction requests entries in CDB  
You can check MCSerialNumber entries in CDB:  
[http://147.91.87.158/cgi-bin/get\\_mcserial](http://147.91.87.158/cgi-bin/get_mcserial)
- The scripts used for MC production on the grid are available on launchpad
  - <https://launchpad.net/mice-mc-batch-submission>



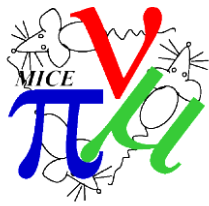
## Migration from WMS to DIRAC



- During the last and this year, on several sites Workload Management System (WMS) service was stopped.
- Some sites supporting MICE Virtual Organisation (VO) Computing Elements (CEs) did not take jobs, and production could be done on decreasing number of sites.
- The migration from WMS to DIRAC, a successor Workload System has to be done, in order to use all the sites which are supporting MICE VO, and migration has to be concluded till the end of 2017, since WMS will not be operating after that.
- Test MC production on the grid using DIRAC submission system **was successful** with smaller number of jobs, and some significant test is needed in order that we can state that the migration is done.

- There were 10 G4Beamline libraries produced:
  - 3\_240\_M3, 6\_240\_M3, 10\_240\_M3, 6\_200\_M3, 10\_200\_M3, 3\_170\_M3, 10\_140\_M3, 6\_140\_M3, 3\_200\_M3, 3\_140\_M3
- Also, one G4Beamline library with Paolo's optimised Beamline currents.
- 23 new production using existing V4 G4Beamline libraries were done.

- Many new productions done since last CM.
- Migration from WMS to DIRAC test successful
- To do is transfer of productions to RAL castor tape. One ggus ticket submitted, for short while I had access to castor, need to (re)submit ggus ticket.
- New productions of optimised G4BL will be done shortly.
- There will be need to run new MAUS productions using new MAUS version.



**THANK YOU!**