

Operating the UK Grid for Particle Physics in 2011

As the amount of LHC experiment data collected has increased and user analysis has ramped up, there have been new computing infrastructure problems to resolve and manage. This paper sets out to review those problems, the solutions and highlight ongoing issues as seen in the UK particle physics grid. As well as reviewing the technical advances the paper will cover management changes both at the project (GridPP4 has recently been approved and with it comes some structural changes) and day-to-day operational levels (again GridPP4 brings with it changes and on top of this there has been a move to a National Grid Infrastructure). The final part of the paper summarizes recent discussions within GridPP on future challenges and technical issues and where available presents current thinking and results based on studies undertaken.

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