UKAFF Time Application Form

To be completed and sent to Lisa Brant, UKAFF Secretary, Department of Physics & Astronomy, University of Leicester, University Road, Leicester, LE1 7RH, UK by *1st August 2007*

1 Project Title

2 Details of Applicants

	Principal Investigator	Co-Investigator 1	Co-Investigator 2
Name			
Institution			
Address			
E-mail			
Telephone			
Fax			

3 Computing Requirements

Application for period	Oct-Dec 2007

IBM 13 node cluster, 88 cpus, 2GB RAM per cpu, 0.9TB home disk, 7TB scratch disk	
Maximum number of threads/cpus (max 16 threads for OpenMP jobs max 76 processes for MPI jobs)	
Memory (GB)	
cpu hours	
Disk space (GB) This will be split in the ratio 1:3 between /home and /scratch unless specified	

4 Previous use of UKAFF

Please detail any previous applications to UKAFF and include details of:

- Computing resources used
- Resulting publications

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	Principal Investigator	Co-Investigator 1	Co-Investigator 2
Signature			
Date			

NB. Access to any time awarded will not be granted until original signatures of all applicants have been received.

Appendices

A Science Case

Please attach not more than 2 sides of A4 (12pt) to include the following:

- The aims and expected results
- Research merit and quality, including:
  - the potential of the work to generate new knowledge in an important area
  - the comparative merits of the work within its discipline
  - originality,
  - international competitiveness
  - scientific or commercial potential
- Evidence of the research capabilities of the applicants

B Technical Case

Please attach not more than 2 sides of A4 (12pt) to include the following:

- Description of code (grid based, particle based, language - f77, f90, C or C++)
- Current status of parallelisation giving quantitative timings for representative physical models across the requested range of available processors to show that effective and efficient use can be made of the computing resources being requested. It should be clear from these test runs how the applicants have generated their request for CPU-hours, memory and disk usage *
- Previous experience with high performance computing facilities
- Other high performance computing facilities available to the researchers involved and why these cannot be used for this project
- Justification as to why this project is best suited to UKAFF

** Development access to UKAFF is readily available for test runs and producing code timings. See www.ukaff.ac.uk for details of getting an account.*