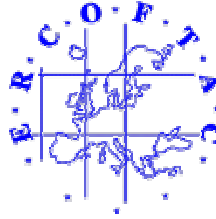


SPHERIC

**Smoothed Particle Hydrodynamics European Research
Interest Community**



Report on the SPHERIC round-table session moderated by Prof. R. A. Dalrymple

Universita di Roma La Sapienza, 12 May 2006

1. Introduction

At the close of the First SPHERIC workshop held in Rome on May10-12 2006, an open round-table discussion was moderated by Prof. Tony Dalrymple of Johns Hopkins University. The meeting began with a brief report of the Steering Committee meeting of 11 May, and the announcement that the second workshop will be organised in Universidad Politécnica de Madrid by Antonio Souto Iglesias.

2. Benchmark cases

The participants discussed possible cases to be added to the list of SPHERIC benchmarks. The following test cases were suggested:

- astrophysical cases with shock waves
- double shear layer – a test of capability to model vorticity
- backward facing step
- stationary hydraulic jump, with inlet and outlet boundaries
- compressible flow with shock waves

All contributions of new benchmark test cases are welcome.

3. Educational material

Tony Dalrymple asked the group's opinion of available educational materials (textbooks and literature). It was agreed that better introductory materials would be valuable for new researchers in the field. In this context, support was expressed for the principle of a future summer school on SPH. It was suggested that an SPH FAQ would be useful. This can be hosted on the SPHERIC website, and material for inclusion can be sent to the webmaster, Ben Rogers. An online archive of preprints (as in the astrophysics community) was suggested – this can also be hosted on the SPHERIC site.