

Two Graduate Studentships in Computational Astrophysics



AstroHydro3D is an initiative of the Theory Group at Sterrewacht Leiden, in collaboration with the Astronomical Institute at Utrecht University and with the Kapteyn Instituut at Rijksuniversiteit Groningen. The principal investigators are prof.dr **Vincent Icke**, dr **Garrelt Mellema**, prof.dr **Norbert Langer** and dr **Rien van de Weygaert**. The project is sponsored by a grant from the **NWO Computational Science Programme**.

The **aim of the project** is, to establish and operate a flexible environment for the three-dimensional simulation of **hydrodynamical phenomena in astrophysics**. We intend to reach this goal by using modern adaptive-mesh refinement techniques, coupled to physics modules for gravitation, radiative transfer, molecular and dust chemistry, nucleosynthesis, and cosmological backgrounds. The **astrophysical phenomena** we wish to model include star formation and star death, large scale structure in the Universe, and galaxy formation.

In the first phase of the AstroHydro3D project, we have available **two positions for graduate students**, one at Sterrewacht Leiden, the other at the Astronomical Institute at Utrecht.

Applications should include a **curriculum vitae, comprehensive list of academic achievements (including grades), and names and addresses of two references**, and must be sent to prof.dr Vincent Icke, Sterrewacht Leiden, Postbus 9513, 2300 RA Leiden, The Netherlands. **Deadline for application is November 1, 2001.**

icke@strw.LeidenUniv.nl

www.strw.leidenuniv.nl/~icke/