Computational Astrophysics

Prof. Dr. F. Röpke, Prof. Dr. C. Klingenberg, S. Ohlmann

WS 2013/2014

Schedule

Lecture:	Thursday	10:00-12:00	Seminar room 31.01.008
Exercise:	Tuesday	14:00-16:00	Seminar room 31.01.008

The first lecture is on Tuesday, **15.10.2013**!

Syllabus

The subject of astrophysics are complex objects and phenomena. Seeking for a theoretical understanding, a realistic description is required. To this end, computers have become a major tool of research and with ever more powerful computational resources and modern numerical techniques, a detailed modeling of astrophysical objects has become feasible. Based on general strategies to numerically model astrophysical phenomena, the course aims at describing some recent developments in computational astrophysics.

Exercises

The exercise sheets will be available at `http://astro.uni-wuerzburg.de/~sohlmann/teaching/`. A password is required, which will be given in class.

The solution to most exercises will be presented by you in class, some might be handed in.

Examination

At the end of the semester, an oral examination will be conducted. The prerequisite for taking the examination is reaching 50% solved exercises compared to the total number of exercises.

Further Information

Further material, e.g. scripts and lecture slides, are available from Prof. Röpke's homepage at
`http://www.mpa-garching.mpg.de/~fritz/teaching/teaching.html`.

Contact

If you have questions concerning the exercises, feel free to come to Sebastian's office in 31.01.003 or write an email to `sohlmann@astro.uni-wuerzburg.de`.

For other questions, Prof. Röpke's office is located in 31.01.017 and his email address is
`friedrich.roepke@astro.uni-wuerzburg.de`. Prof. Klingenberg's office is located in 30.02.012 and his email address is `klingenberg@mathematik.uni-wuerzburg.de`.