

Introduction to Radio Astronomy

Lecturer: [JProf. Dr. Joris Verbiest](#)

Courses:

- [Radioastronomy](#) (lectures / 2 hours per week)
- [Exercises to Radioastronomy](#) (exercises / 1 hour per week)

Credite points:

- **5 CP** (lecture + exercises + exam; module: *Vertiefung B.1*)

Examination:

- written

Course description:

This course provides an overview of the techniques behind radio astronomy, the scientific results to date; and the expected science with future telescopes.

Lecture topics include:

- basic antenna theory
- single dish vs. interferometers
- radiative processes in radio astronomy
- Galactic emission
- the interstellar medium
- The Milky Way
- Stars
- Pulsars
- Active Galactic Nuclei
- The future of radio astronomy