

## Quasars and Microquasars - astro856

<i>Course</i>	Quasars and Microquasars
<i>Course No.</i>	astro856

Category	Type	Language	Teaching hours	CP	Semester
Elective	Lecture	English	2	3	WT

**Requirements for Participation:**

**Preparation:**

**Form of Testing and Examination:** Written or oral examination

**Length of Course:** 1 semester

**Aims of the Course:** The phenomenon of quasars and their energy production shall be studied from the smallest (stellar binaries) to the largest (active galactic nuclei) scales

**Contents of the Course:** Microquasars and Quasars; X-ray binaries; Accretion; Neutron stars; Black holes; X-ray observations; Spectral states; Radio observations; Doppler boosting; Energy losses; Magneto-hydrodynamic production of jets; Gamma-ray observations; Review of Microquasars; Quasi periodic oscillations (QPO)

**Recommended Literature:** Literature references will be provided during the course

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