Modules:

astro830 Elective Advanced Lectures astro850 Modern Astrophysics

Course: unive



Quasars and Microquasars

Course No.: astro856

Category	Туре	Language	Teaching hours	СР	Semester
Elective	Lecture	English	2	3	WT

Requirements:

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