

Modules:

astro830 **Elective Advanced Lectures**
 astro850 **Modern Astrophysics**

Course:**Stellar and Solar Coronae**

Course No.: astro851

Category	Type	Language	Teaching hours	CP	Semester
Elective	Lecture with exercises	English	2+1	4	ST

Requirements:**Preparation:****Form of Testing and Examination:**

Requirements for the examination (written or oral): successful work with the exercises

Length of Course:

1 semester

Aims of the Course:

The student shall gain thorough knowledge of activity phenomena exhibited by the sun and other stars

Contents of the Course:

Sunspots and solar corona; Solar cycle; The Dynamo theory; Emission mechanism; Coronal loops; Magnetic reconnection; Flares; Magnetic stellar activity; Mapping star-spots: Doppler imaging; Radio coronae

Recommended Literature:

Literature references will be provided during the course