Module: Elective Advanced Lectures: Modern Astrophysics

Module No.: astro850

Course: Stellar and Solar Coronae

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

Requirements for Participation:

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