Stellar and Solar Coronae - astro851

Degree - M.Sc. in Astrophysics (PO von 2014)

Module	**Elective Advanced Lectures: Modern Astrophysics**
Module No.	astro850

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 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