Star Formation - astro857

Course	Star Formation
Course No.	astro857

		Teaching		
Category	Type	Language hours	\mathbf{CP}	Semester
Elective	Lecture with exercises	English 2+1	4	WT

Requirements for Participation:

Preparation:

Form of Testing and Examination: Written or oral examination

Length of Course: 1 semester

Aims of the Course: An introduction to basic concepts, modern theories, and the current observational basis of star formation.

Contents of the Course: The structure and evolution of the interstellar medium in relation to Star Formation: molecular excitation, interstellar chemistry; the star formation process: conditions, cloud collapse, protostellar evolution; low mass vs. massive star formation; related phenomena: jets and outflows, protostellar disks, shocks, photodissociation regions; the initial mass function, global star formation, starbursts, the star formation history of the Universe, the very first stars.

Recommended Literature:

Stahler, Palla: The Formation of Stars (Wiley-VCH, 2004)

Additional literature will be given during the course

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