## Submillimeter Astronomy - astro842

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

$\overline{Module}$	Elective Advanced Lectures: Observational Astronomy
Module No.	astro840

$\overline{Course}$	Submillimeter Astronomy
Course No.	astro842

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

## Requirements for Participation:

Preparation: Basic astronomy knowledge

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: Students with B.Sc. in Physics will be introduced to astronomy in the submillimeter wavelength range, one of the last spectral regions to be explored with new high-altitude ground-based or airborne telescopes, and from space

Contents of the Course: The basic concepts of emission/excitation mechanisms from interstellar dust and molecules are discussed as well as the properties of the observed objects: the dense interstellar medium, star forming regions, circumstellar environments. Star formation near and far is a central focus of submillimeter astronomy and will thus be introduced in depth. Telescopes, instrumentation, and observational techniques will be described in the course

Recommended Literature: Contemporary review articles