### Module title
Space Physics

### Abbreviation
10-I-SP-182-m01

### Module coordinator
holder of the Chair of Computer Science VII

### Module offered by
Institute of Computer Science

### ECTS
8

### Method of grading
numerical grade

### Only after succ. compl. of module(s)
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### Duration
1 semester

### Module level
graduate

### Other prerequisites
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### Contents
1. Overview  
2. Dynamics of charged particles in magnetic and electric fields  
3. Elements of space plasma physics  
4. Sun and heliosphere  
5. Acceleration and transport of energetic particles in the heliosphere  
6. Instruments for measuring energetic particles in space.

### Intended learning outcomes
The students possess a fundamental knowledge about space physics and, in particular, the description of the dynamics of charged particles in the heliosphere and in space. They are familiar with the relevant parameters, their theoretical formulation and the methods to measure them.

### Courses
V (4) + Ü (2)

Module taught in: English

### Method of assessment
written examination (approx. 90 to 120 minutes)

Language of assessment: English  
credible for bonus

### Allocation of places
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### Additional information
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### Referred to in LPO I
(examination regulations for teaching-degree programmes)

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### Module appears in
Master’s degree (1 major) Satellite Technology (2018)