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**Modulbezeichnung:** Seminar: Teilchenphysik und Astrophysik (PS) 5 ECTS  
 (Seminar: Particle Physics and Astrophysics)

Modulverantwortliche/r: Uli Katz, Gisela Anton, Ulrich Heber, Jörn Wilms, Christopher van Eldik, Alexander Kappes, Stefan Funk

Lehrende: Ulrich Heber, Jörn Wilms, Alexander Kappes, Gisela Anton, Uli Katz, Stefan Funk, Christopher van Eldik

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Startsemester: SS 2016

Dauer: 1 Semester

Turnus: unregelmäßig

Präsenzzeit: 30 Std.

Eigenstudium: 120 Std.

Sprache: Deutsch oder Englisch

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### Lehrveranstaltungen:

Physikalisches Seminar zur Teilchenphysik und Astrophysik I / Seminar on Particle Physics and Astrophysics (SS 2016, optional, Hauptseminar, 2 SWS, Anwesenheitspflicht, Gisela Anton et al.)

Physikalisches Seminar zur Teilchenphysik und Astrophysik II / Seminar on Particle Physics and Astrophysics (SS 2016, optional, Hauptseminar, 2 SWS, Gisela Anton et al.)

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### Inhalt:

#### Contents:

In this seminar, topics in modern particle physics and astrophysics will be discussed. Participants will present their topic of choice in a seminar talk and have a discussion with the audience. Suitable topics will be provided by the supervisors.

See the StudON page for the list of topics and further information.

### Lernziele und Kompetenzen:

#### Learning goals and competences

Students

- comprehend an interesting physical topic in a short time frame
- identify and interpret the appropriate literature
- select and organize the relevant information for the presentation
- compose a presentation on the topic at the appropriate level for the audience
- use the appropriate presentation techniques and tools
- criticize and defend the topic in a scientific discussion

### Literatur:

#### Literature

Primary literature will be provided by the supervisors of the individual topics.

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### Studien-/Prüfungsleistungen:

Seminar: Teilchenphysik und Astrophysik (Prüfungsnummer: 639157)

(englische Bezeichnung: Seminar: Particle Physics and Astrophysics)

Prüfungsleistung, mündliche Prüfung, Dauer (in Minuten): 45

Anteil an der Berechnung der Modulnote: 100%

weitere Erläuterungen:

Mandatory attendance, Anwesenheitspflicht

Erstablingung: SS 2016, 1. Wdh.: keine Angabe

1. Prüfer: Gisela Anton

1. Prüfer: Stefan Funk

1. Prüfer: Ira Jung-Richardt

1. Prüfer: Uli Katz

1. Prüfer: Thilo Michel

1. Prüfer: Jörn Wilms

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### Organisatorisches:

This course will be held in English, i.e. seminar talks are expected to be given in English, too. This also applies to the discussion during and after the presentations.

Note that, due to the large number of participants, the seminar is split into two parts, where participation in one part is compulsory and participation in both parts is invited and encouraged.