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

Modulverantwortliche/r: Uli Katz, Gisela Anton, Ulrich Heber, Manami Sasaki, Stefan Funk, Thilo Michel, Thomas Eberl, Jörn Wilms

Lehrende: Stefan Funk, Thomas Eberl, Uli Katz, Gisela Anton, Ulrich Heber, Jörn Wilms

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Startsemester: WS 2020/2021	Dauer: 1 Semester	Turnus: unregelmäßig
Präsenzzeit: 30 Std.	Eigenstudium: 120 Std.	Sprache: Englisch

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**Lehrveranstaltungen:**

Physics Seminar: Particle Physics and Astrophysics (WS 2020/2021, Hauptseminar, 2 SWS, Anwesenheitspflicht, 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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**Verwendbarkeit des Moduls / Einpassung in den Musterstudienplan:**

Das Modul ist im Kontext der folgenden Studienfächer/Vertiefungsrichtungen verwendbar:

[1] **Physics (Master of Science)**

(Po-Vers. 2018w | NatFak | Physics (Master of Science) | Gesamtkonto | Physics seminar(s) | Seminar: Teilchenphysik und Astrophysik)

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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% Prüfungssprache: Englisch

Erstablingung: WS 2020/2021, 1. Wdh.: keine Angabe

- 1. Prüfer: Gisela Anton
  - 1. Prüfer: Stefan Funk
  - 1. Prüfer: Ulrich Heber
  - 1. Prüfer: Uli Katz
  - 1. Prüfer: Thomas Eberl
  - 1. Prüfer: Jörn Wilms
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**Organisatorisches:**

- Preliminary meeting scheduled for Mo, 02 Nov 2020, for both seminars, first presentations expected at Mo, 30 Nov 2020.
- 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, if the number of participants is large, the seminar is split into two parts, where participation in one part is compulsory and participation in both parts is invited and encouraged.
- Further information is available on StudON where also the list of topics will be made available. Participants registering before the list of topics is available will receive a request by email to select their favourite topics once this list is visible on StudON. Registration is via StudON.

**Bemerkungen:**

May be applied to specialisation 'Astrophysics and astroparticle physics' in the physics master program starting winter term 2018/19.