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Fakultät für Mathematik

ANTRITTSVORLESUNG

Mathematisches Kolloquium

Mittwoch, 30. März 2022

Sky Lounge

EINLADUNG

Oliver Hahn

(Universität Wien – Fakultät für Mathematik, Fakultät für
Geowissenschaften, Geographie und Astronomie)

**“Cosmology at the interface of numerical and
analytical techniques”**

“Cosmology at the interface of numerical and analytical techniques”

Abstract:

Understanding the cosmos is one of the fundamental quests of mankind. Over the past decades, theories of the origin and evolution of the large-scale structure of our Universe have shifted into the realm of a quantitative and precise science. Current and upcoming observational efforts now probe nearly the entire observable Universe and will amass data of unprecedented quantity and quality. However, we still lack understanding of the nature of the dominant dark components of our Universe, and the physics of its quantum origin. Clues to their nature may lie in minute inconsistencies between observations and existing models. In the quest for precision cosmology, numerical simulations, mathematical models, and data driven techniques are converging to make progress on these most fundamental questions of contemporary physics. In my talk, I will give an overview of recent developments at this frontier.

15.45 Uhr: Kaffeejause

16.15 Uhr: Vortrag

Kleines Buffet im Anschluss

Radu Ioan Bot, Petra Heinz

<https://univienne.zoom.us/j/63509099708?pwd=MUNxVnU4VERDWTVOSIAzMmo0SkVsdz09>