

PHYSIKALISCHES KOLLOQUIUM

Wintersemester 2022/23

Das Kolloquium findet (soweit nicht anders angegeben) **jeweils montags um 17:15 Uhr in Präsenz im Röntgen-Hörsaal des Physikalischen Instituts, Hubland Campus Süd, Universität Würzburg und online via Zoom statt.**

Link zum Zoom-Raum:

<https://go.uniwue.de/physkolloqzoom>



06.02.2023

Vorstellungsvortrag im Rahmen des Habilitationsverfahren

Dr. Christian Fromm
Universität Würzburg, Lehrstuhl für Astronomie

Numerical simulations of accreting black holes and relativistic jets

Abstract

Black holes are among the most fascination objects in the Universe and are characterized that not even light can escape their gravitational pull once crossing the event horizon. However, in the direct vicinity of supermassive black holes relativistic jets are launched. These jets propagate as a collimated outflow several thousands of light years and can accelerate particles to the highest energies. Most of our knowledge on relativistic jets is inferred from very long baseline interferometric (VLBI) observations and recent 230 GHz VLBI observations of the Event Horizon Telescope (EHT) present the most compelling evidence for black holes as engines of relativistic jets. During the talk numerical models used to interpret the EHT observations are presented and an outlook including possible future observations and their modelling will be provided.

Für die Dozentinnen bzw. Dozenten der Fakultät

PD. Dr. Meyer, Prof. Dr. Assaad, Dr. Feichtner und Hr. Kögel