UNIVERSITÄT DUISBURG ESSEN

PHYSIK E=

Physikalisches Kolloquium

Mittwoch, 17.04.2024
13:00 Uhr
MC 122 und Zoom

https://uni-due.zoom-x.de/j/64228670246?pwd=RjVQeFNIUkRKRkpiNVpKYXhJaFNLdz09

Dynamical accretion flows, magnetic field and density structure in high-mass star formation

Dr. Henrik Beuther,
Max Planck Institute for Astronomy Heidelberg

How much do different physical processes in the interstellar medium -- in particular dynamics, magnetic field and density structure -- influence the formation of massive stars? I will show observational results covering scales of dynamical cloud-cloud collisions to collapsing star-forming regions. Employing studies from mm wavelengths (SMA, NOEMA, ALMA, 30m) to the mid-infrared (JWST), the characterisation of magnetic field, density structure and accretion processes will be discussed.