

# Seminar

HPC Lab · CDS

Monday, January 23, 2023

4–5:30 p.m.

Room 1.03, RRZK

University of Cologne

Weyertal 121



Center for  
Data and  
Simulation  
Science

## Speaker:

**Dr.-Ing. Michael Klemm**

**HPC Center of Excellence, AMD**



## AMD EPYC PROCESSORS AND INSTINCT ACCELERATORS

### THE JOURNEY TO EXASCALE AND BEYOND

High Performance Computing (HPC) is a prevalent and widespread tool to solve advanced, scientific and commercial problems. Simulating the structure of molecules, computational fluid dynamics, quantum chemistry, or astrophysics are just a few examples of the many domains that employ HPC systems at all scales to solve every-day and not so every-day problems. AMD has a rich history of providing hardware that helps satisfy the computa-

tional demands of today's HPC workloads. In this presentation, we will recap the developments and innovations at AMD in the recent past and how they led to the current design of AMD EPYC Processors and AMD Instinct Accelerators. Hardware and software are equally important, and so we will spend a bit of time also on software implications. We will close the talk with an outlook on what will be coming in the near-term future.

