

INVITATION

VILLUM Investigator Grants Inauguration and reception

Date:

1 February 2024
14:00-16:30

Venue:

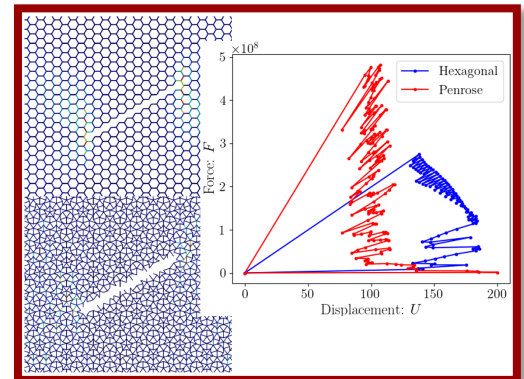
DTU Lyngby Campus
Building 101, Meeting room 01

We are pleased to invite you to the inauguration of:

AMSTRAD - Architected Materials and Structures with Randomness And Defects

– Lead by Ole Sigmund

Nature exhibits plethora of random structures with remarkable properties, whereas man-made materials are mostly periodic. On the other hand, manufacturing errors destroy periodicity of otherwise perfect designs. So what is optimal? Order or disorder? And how does the answer depend on physics, objective functions and manufacturing processes?



MicroAM - Microstructural engineering of additive manufactured metals

– Lead by Dorte Juul Jensen

Additive Manufacturing (AM) is at present revolutionizing metal manufacturing, but the huge potential of microstructural engineering, used for decades in conventional manufacturing, has not been systematically explored for AM. This opens new possibilities, but a challenge will be how to include defects typical for AM, namely voids and local stresses, and thus lay the foundation for design of AM-defect tolerant microstructures.

For those interested in seeing the experimental equipment, we will start with a tour to the Powder and Additive Manufacturing laboratories in Building 427, main entrance at 13:00.

