



# Short-Term Internship

Jonas Christ

24.06. – 11.10.

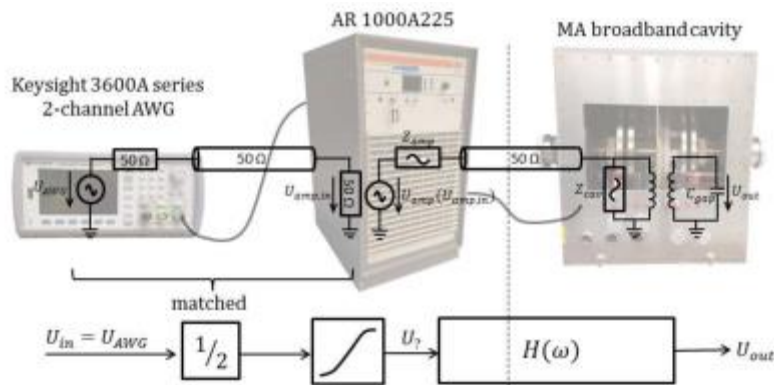
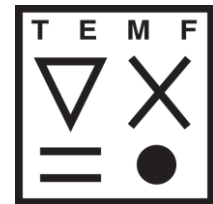
Supervisor Lorenzo Bortot



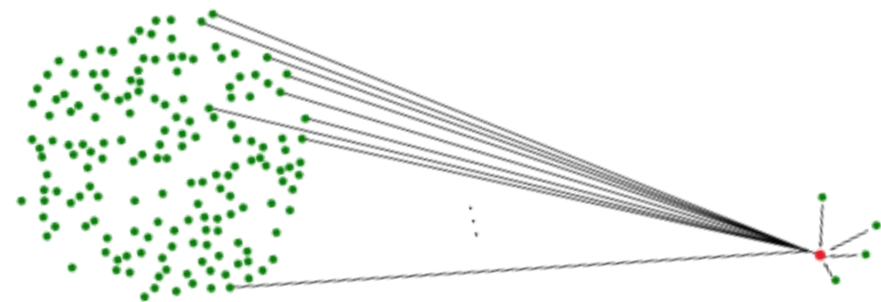
TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

# Projects I

- 8/18 Accelerator technology at GSI, Darmstadt
  - Optimisation of software tools for barrier bucket cavities
- 3/19 Particle simulation at TEMF institute
  - 2D Multipole-method for space-charge interactions



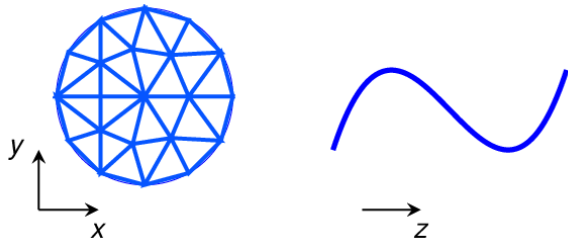
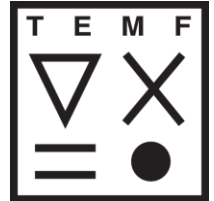
(J. Harzheim – 2017)



(S. Schmid – 2018)

# Projects II

- 6/19 Bachelor Thesis
  - Combination of 2D FEM with polynomial basis functions for thermal heat conduction



- Project at CERN
  - Bus-bar (thermal) quench simulation with basis functions, focus on nonlinear material properties

# Beyond

- ❖ Scouting
- ❖ Development cooperation
- ❖ ...



