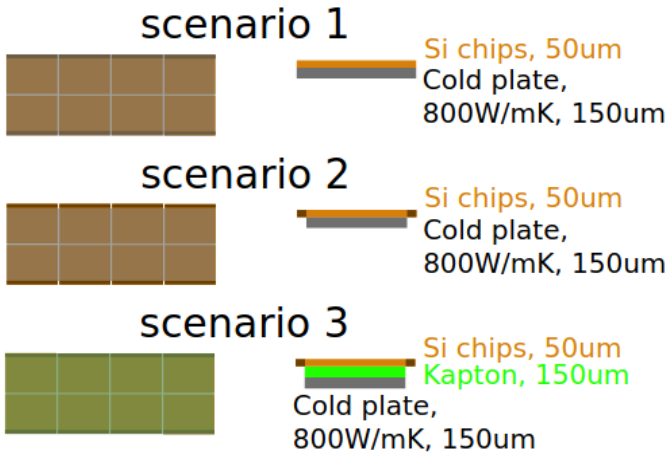
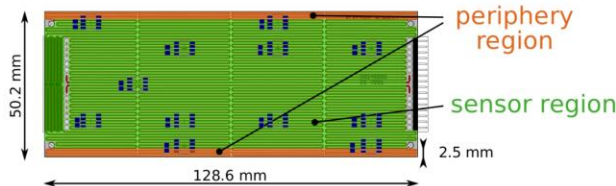
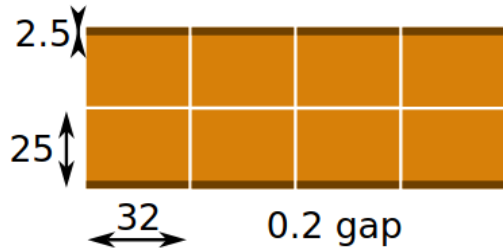
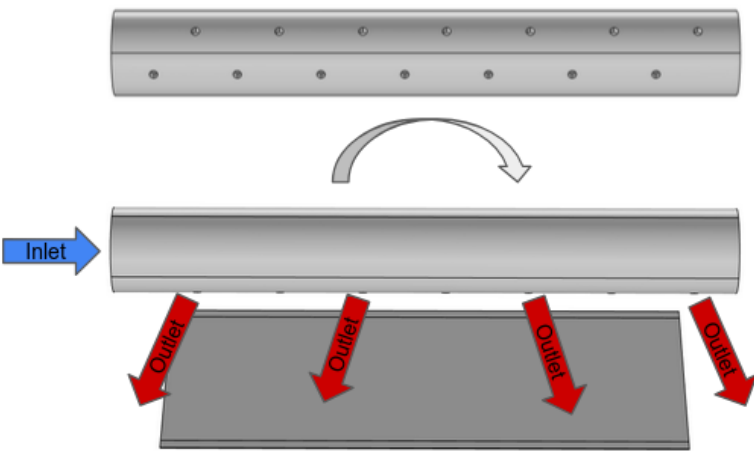
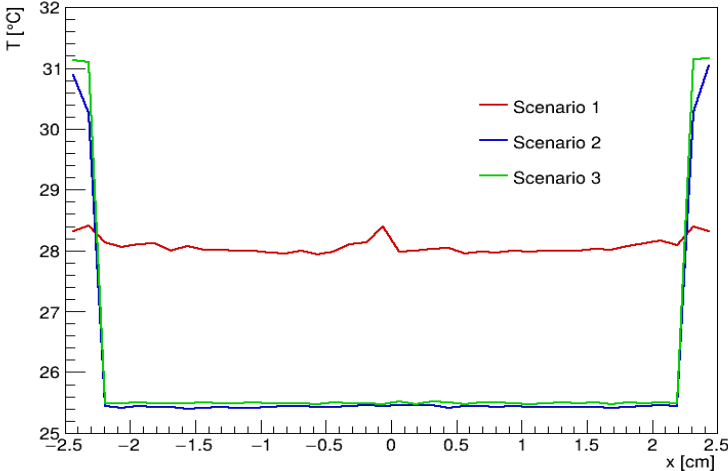


# ALICE 3: OT cooling simulations with COMSOL Multiphysics

- Experimental setups in Munich & Heidelberg
  - Working together with Laszlo from TUM on solutions with air cooling
- Geometry building and simulations using COMSOL
- The COMSOL license is tied to the CPU
  - Some encounters with hardware issues for more complex models



# ALICE 3: Multi-charm analysis with fast simulations

- On-the-fly simulations → no content saved to disk
- $\Xi_{cc}^{++}$  decay studied for ALICE 3 Lol using hybrid simulations
  - Full simulation for cascade
  - Fast simulation for primary-like pions
- New approach to treat weak decay daughters with fast simulation so we can treat the entire multi-charm decay with fast simulations

