Topics on Device Modelling, Simulation, Control

Group	Room	Moderator
1	TCPL201	Suzey Gao, Erik Nielsen
2	TCPL202	Rajib Rahman
3	TCPL Foyer	Thomas Schulte Herbruggen
4	TCPL107	Jim Fonseca

Feedback session in 201 moderated by Richard Muller

Questions

➤ Topics on Device Modelling, Simulation, Control

- Realism of model – speed vs. accuracy
- Multi-scale – from micro to high-level gate description
- Optimisation of QCAD approach
  - including more micro physics (e.g. TB, valleys, …)
  - use to power of Gaussians?
- Time-dependent QCAD
  - Quantum transport
  - External EM fields
  - Eff. spin description
- Open quantum systems description (holy grail)
- Coherent and incoherent control