Institute of Microwave and Photonic Engineering

Wolfgang Bösch
wbosch@tugraz.at
IHF – Research Areas

Research Partners:

- Infineon
- AVL
- NXP
- AT&S
- Rohde & Schwarz
- Austro Control
- Rosenberger
- DWD
- Joanneum Research
- VIPER RF

Current Research Projects:

- **SeCos**
  - RFID at mmW
  - RFID reader & tag for localisation

- **MARG**
  - FMCW weather radar
  - HW & SW development

- **GAZELE**
  - automotive radar stimulator
  - real-time & multiple targets

- **K@Home**
  - Potassium sensor
  - CMOS clock
IHF – Infrastructure

MW and mmW Laboratory

- Complex MW measurements 10MHz to 110 GHz
- Automated on-wafer measurements (-40degC to 170degC)
- 80 m² clean room

Anechoic Chamber

- Emission Measurements
- Antenna Patterns
- MIMO & OTA measurements

Research Radar

- C-Band weather radar
- X-Band mono-pulse system

RFID

- RFID Reader
- Simulink modelling
- Localisation