

DIAL related activities, currently funded in Germany

DLR funded:

➤ **Mixed Garnet & Cavity Control**

- ILT Aachen, Astrium-D
- Direct pumped Garnet laser for H₂O DIAL measurements
- Target 80 mJ pulse energy at 936 nm
- Stabilization method development for Q-switched high power lasers

➤ **H₂O DIAL Airborne Demonstrator (DLR R&D)**

- DLR IPA Oberpfaffenhofen
- Development of a universal airborne multi-wavelength trace gas DIAL
- Demonstration/validation for space-borne DIAL systems

➤ **SWIR Detector GENSIS**

- AIM Heilbronn
- Generic SWIR MCT detector array development (1-2.5 μm)

DFG funded:

➤ **Lidar Reference System Based on a High-power Laser**

- Univ. of Hohenheim + Potsdam, IfT Leipzig, DLR IPA Oberpfaffenhofen
- Ground based mobile DIAL system development

➤ **Priority Programme “Quantitative Precipitation Forecast ”**

- University of Bonn (coord.) and rel. institutes
- Field campaigns (e.g. COPS), data assimilation in forecast models, etc.

