

## TG Quantum Navigation Overview

<b>TG Leader</b>	Sven Abend
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### TG Activities

- Development of atomic sensors for the application in navigation
- Sensor fusion concepts between classical and quantum sensors
- Simulations enabling tracking of platform trajectories

### TG Competences/Services

- Vibration noise analysis/cancelation
- Compact quantum sensors
- Opto-mechanical sensor design readout (with external partners)

### Involved QF Members

Members	Institution	Relevant Expertise
Sven Abend, Leader	LUH	Quantum Gravimeters
Alexander Kassner	LUH	Atom-Chip Based Gravimeters and Inertial Sensors
Christian Schubert	LUH	Atom-Chip Based Gravimeters and Inertial Sensors
Ernst Rasel	LUH	Quantum Gravimeters; Atom-Chip Based Gravimeters and Inertial Sensors
Marc Christoph Wurz	LUH	Development of compact vacuum pumps, pressure measurement devices and miniaturized Rb sources; Atom-Chip Based Gravimeters and Inertial Sensors
Steffen Schön	LUH	GNSS based frequency transfer towards relativistic geodesy
Claus Lämmerzahl	ZARM	Quantum Sensors in Free Fall; Relativistic Geodesy; Quantum Objects in Gravity
Dennis Schlippert	LUH	
Waldemar Herr	LUH	
Yueyang Zou	LUH	
Ashwin Rajagopalan	LUH	
Mouine Abidi	LUH	
Philipp Barbey	LUH	
Hendrik Heine	LUH	



Matthias Gersemann	LUH	
Maike Lachmann	LUH	
Sebastian Bode	LUH	
Knut Stolzenberg	LUH	
Alexander Herbst	LUH	
Benjamin Tennstedt	LUH	
Nikolai Weddig	LUH	
Martina Gebbe	ZARM	
Dennis Philipp	ZARM	
Christian Pfeifer	ZARM	
Christian Vogt	ZARM	
Sven Herrmann	ZARM	
Christoph Künzler	LUH	