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Quantum Antennas and Photonic Quantum Sensing

Gregory Slepyan, Dmitri Mogilevtsev

The session will focus on research results and applications in the fields of quantum effects in antennas and photonic sensing, including "quantum inspired" schemes in imaging and sensing. The main idea of this session is to give an overview of the recent results in the field taking into account engineering background of the audience. This session is welcoming contributions related to quantum devices and systems and, in particular, in the following fields:

- Quantum antennas, nano-antennas, enhancement of spontaneous emission, terahertz antennas;
- Quantum radars and lidars, single-photon lidars
- Quantum sensing & metrology, quantum-enhanced and quantum-inspired microscopy & imaging;

Quantum measurements, single-photon detection, state and process tomography & diagnostics