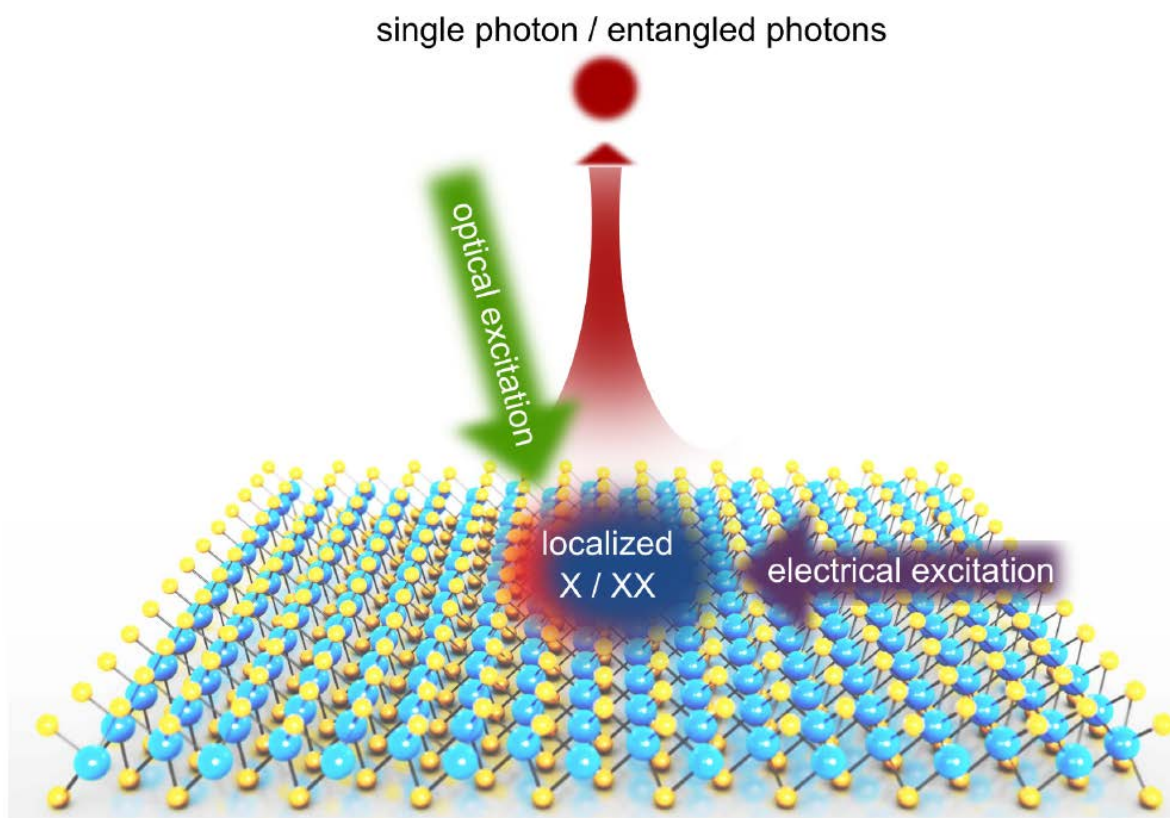


Master thesis project

Quantum optics light source based on 2D materials

Atomically thin two-dimensional (2D) materials show several extraordinary optical, electronic, mechanic and chemical properties suggesting a huge array of possible applications. Recent studies have demonstrated that 2D materials can act as a non-classical source of light by emitting single photons. Alongside with the potential for integration into silicon photonics devices, 2D materials are, thus, a promising new platform for quantum light sources, which are a backbone for some important quantum technologies. The Master thesis project is located in this exciting field of research. The goal of the Master thesis project is to construct a μ -photoluminescence set-up enabling the characterization of single photon emitters in 2D materials.



For more information: www.wieczorek-lab.com

Contacts: Witlef Wieczorek, Assistant Professor, witlef.wieczorek@chalmers.se

Saroj Dash, Associate Professor, saroj.dash@chalmers.se