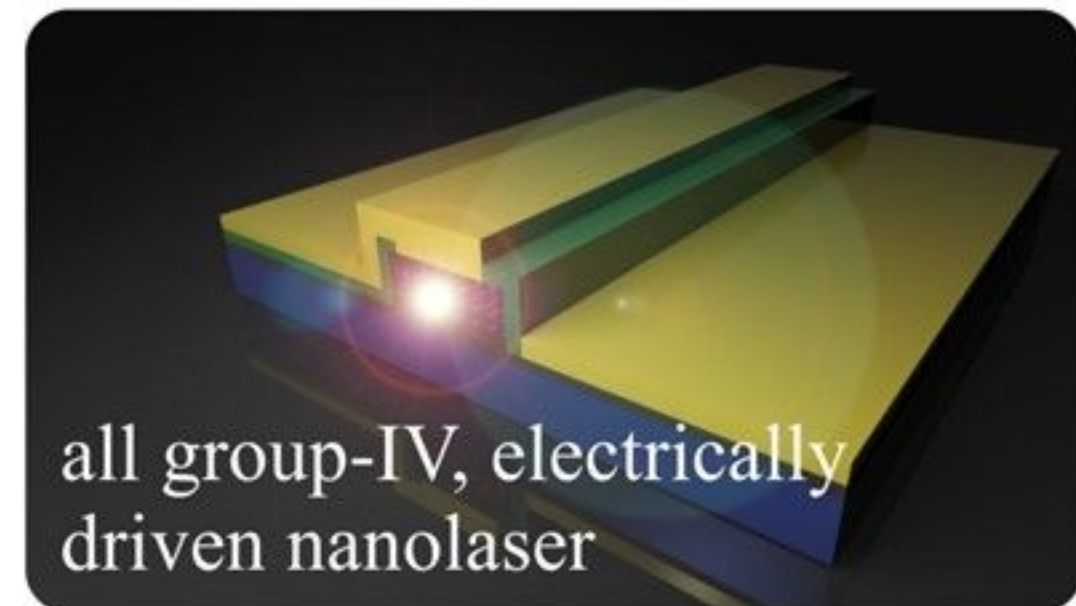


## Master Thesis

### „Silicon devices for electrically-driven quantum dot lasers“

- **Background:** Silicon photonics is a disruptive technology, poised to revolutionize areas like data centers, sensing or high-performance computation by using CMOS-like fabrication methods.
- In the FWF START Project, we aim at creating CMOS-compatible light sources based on epitaxial growth of nanostructures
- **Your task:** Semiconductor technology (clean room technology) to fabricate electrically-driven group-IV light emitting devices such as light emitting diodes and lasers.
- **Further:** Characterization of the devices using spectroscopic means (electroluminescence, optical transmission, etc.)
- You are interested in teamwork in a highly competitive and upcoming research field?



**Start:** from March 2020 on  
**Duration:** 6-8 months  
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