



Eindhoven Hendrik Casimir Institute

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Two research pillars

Integrated Photonics



National Growth Fund
Integrated Photonics
(471 M€)

Quantum Technology



National Growth Fund
Quantum technology
(615 M€)

Integrated Photonics

Materials



- InP, IMOS, SiGe, 2D materials

- Strong-light matter interaction on structured surfaces

- Plasma physics, atomic scale processing

Devices



- PIC design for telecom, datacom, LiDAR, agrifood, OCT, neuromorphic

- Spintronics and magnetic properties

- JePPIX: MPW, pilot line, training, academic IMOS MPW

- Automated testing

Systems



- High-Capacity Optical Transmission

- Low-latency Interconnect Networks

- Optical Access & Indoor Networks

- Terahertz Photonic Systems

We are looking for opportunities and partners

- Material & device development for co-integrated electronics and photonics: establishing *logic and RF platforms* together with photonics platforms (e.g. [WIPE project](#))
- Advanced components for quantum key distribution (e.g. single photon emission/detection)
- Partners for novel pilot line produced PIC devices ([JePPIX](#), [4" pilot line](#), [academic IMOS MPW](#))
- Design and implementation of Ising solvers via coupled oscillatory neural networks; collaborations on Ising machine benchmarking

And more... Interested? Contact: m.trajkovic@tue.nl



Thank you for the attention!

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