



FWF SFB NEXT GENERATION LIGHT SYNTHESIS AND INTERACTION

NEXT-LITE SEMINAR

Monolithic Packaged QCL Arrays for Portable High Performance Spectroscopy

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Abstract

In order to add value and versatility to Quantum Cascade Laser (QCL) based systems, Eos Photonics manufactures arrays of Distributed Feedback (DFB) QCLs, with each element at a slightly different wavelength than its neighbor. In spectroscopy systems, such as standoff detectors and in situ gas analyzers, this increases analyte sensitivity and selectivity by broadening spectral source coverage and by allowing for extremely fast all-electronic wavelength tuning with no moving parts. The QCL array is also an increasingly essential solution to the power scaling of QCLs. This talk will present the QCL array concept and include molecular spectroscopy results for a few demonstration programs including both vapor and condensed phase materials.

Date and Time: **Friday, June 20, 2014, 14:00 c.t.**

Location: **TU Wien, Photonics Institute,**
Seminar Room E387-CBEG02, ground level,
Gußhausstraße 27-29, 1040 Vienna

Host: G. Strasser

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