

Semiconductor Nanolasers

J MØRK¹

¹*Department of Photonics Engineering, Technical University of Denmark, Kongens Lyngby, Denmark*
Contact Email: jesm@dtu.dk

The talk will discuss recent progress on semiconductor nanolasers. Besides their interesting physics, such lasers may be applied in future on-chip optical interconnects. Three topics will be covered: electrically-injected lasers with sub-microampere threshold current; lasers exploiting cavities with deep sub-wavelength light confinement for enhanced light-matter interaction; and Fano lasers exploiting strong cavity dispersion for linewidth reduction and enhancement of modulation speed.