

ST-005

<Invited Talk>

Quantum Dot Based Mode-Locked Diode Lasers and Coherent Buried Heterostructure Photonic Crystal Nano Lasers

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In this talk, some optical properties of quantum dot based mode-locked diode lasers and photonic crystal nano lasers will be discussed. Linewidth enhancement factor, chirp and interband injection locking technique of quantum dot mode-locked lasers will be presented. Also various types of photonic crystal buried heterostructure lasers toward coherent nano laser will be covered as well.

Keywords: Laser, Mode-lock, Photonic crystal, Injection locking