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Quantum Confined Laser Devices Optical

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Quantum-confined Stark effect - Wikipedia

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He is the 2009 recipient of the Willis E. Lamb Award for Laser Science and Quantum Optics. He is a fellow of the American Physical Society (APS) and of the Optical Society of America (OSA). He has also served as an APS representative and chair of the Joint Council on Quantum Electronics (joint among APS, OSA and IEEE/LEOS).

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threshold. The modal gain of a 600- μ m-long laser device is 22 cm^{-1} at threshold. Here we have expressed the carrier density in terms of the sheet density because the carriers are not necessarily confined in the well. The apparent volume density would be $1.5 \times 10^{19}/\text{cm}^3$ at threshold if all the carriers were confined in the quantum well.

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