



IRGLARE

High Performance Quantum Cascade Lasers

by

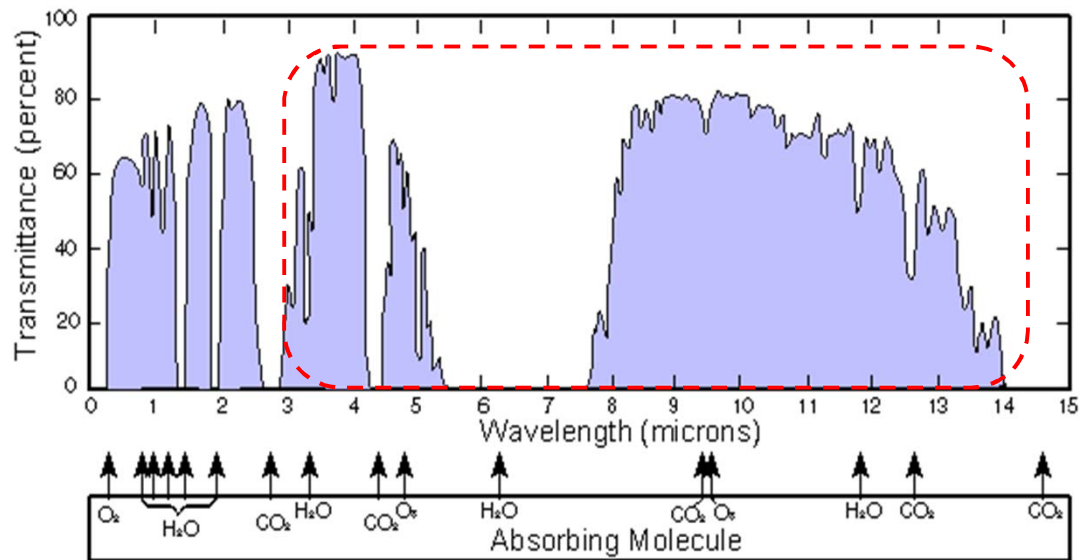
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Orlando, Florida

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Need for Compact Laser Source Emitting in IR Atmospheric Windows



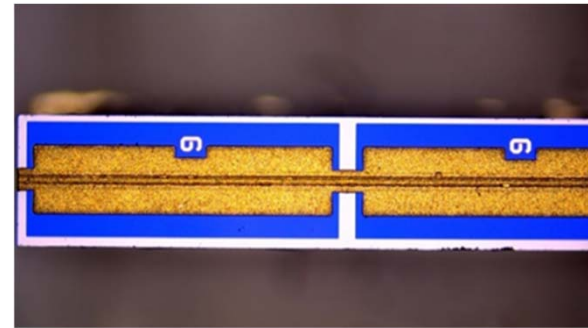


Applications



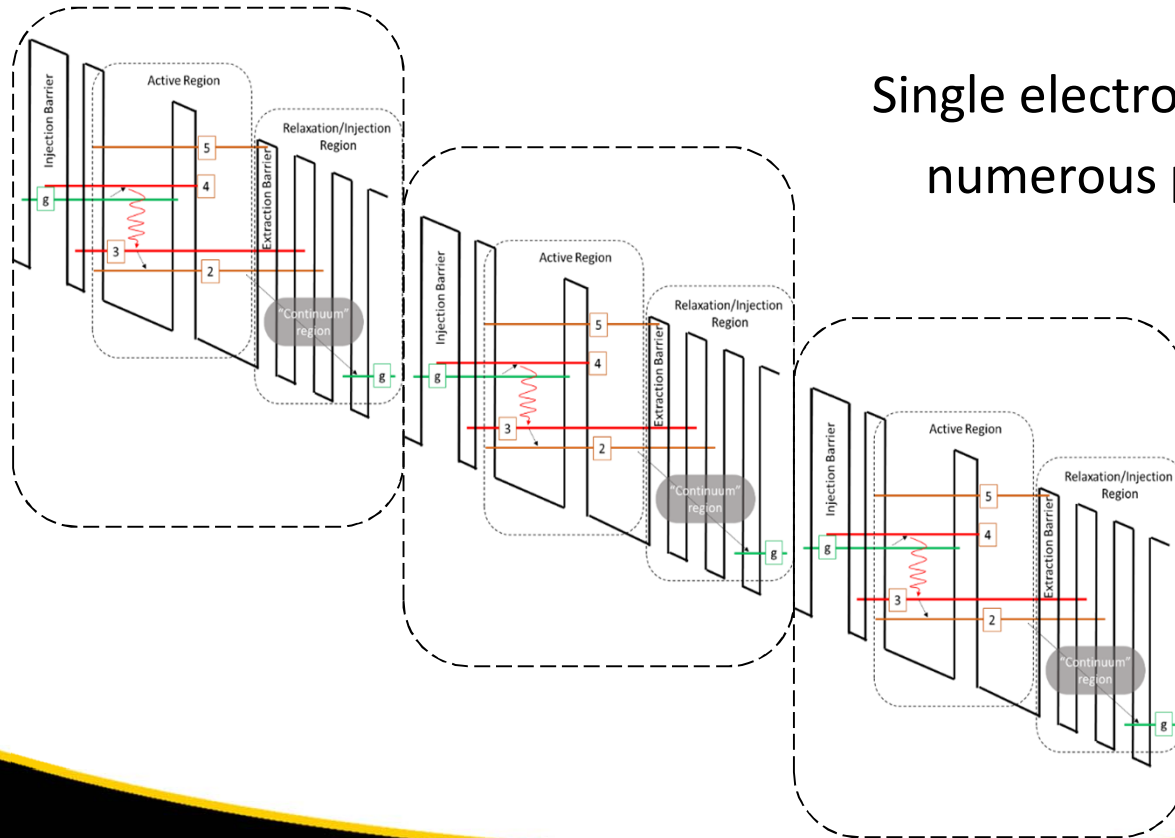


Quantum Cascade Laser



- High power, compact infrared source
- IRGLARE will be selling laser chips to system integrators

Active Region: Cascading Effect



**Overarching goal:
increase brightness**



Overview

- Started in October 2018
- Secured seven Phase I SBIR contracts (7/7 proposals selected for award)
- Started building lab/production infrastructure



Value Proposition

- Very high power at high price (\$5-10k for 5-10W lasers). No competition.
- Low price for moderately high power devices (\$1k for 2-3W lasers). Competition \$4k to \$7k for 2W devices.



Market

- Infrared countermeasures: \$10-20M for laser chips
- Beacons: potentially \$30-50M
- Sensors: \$1-2M