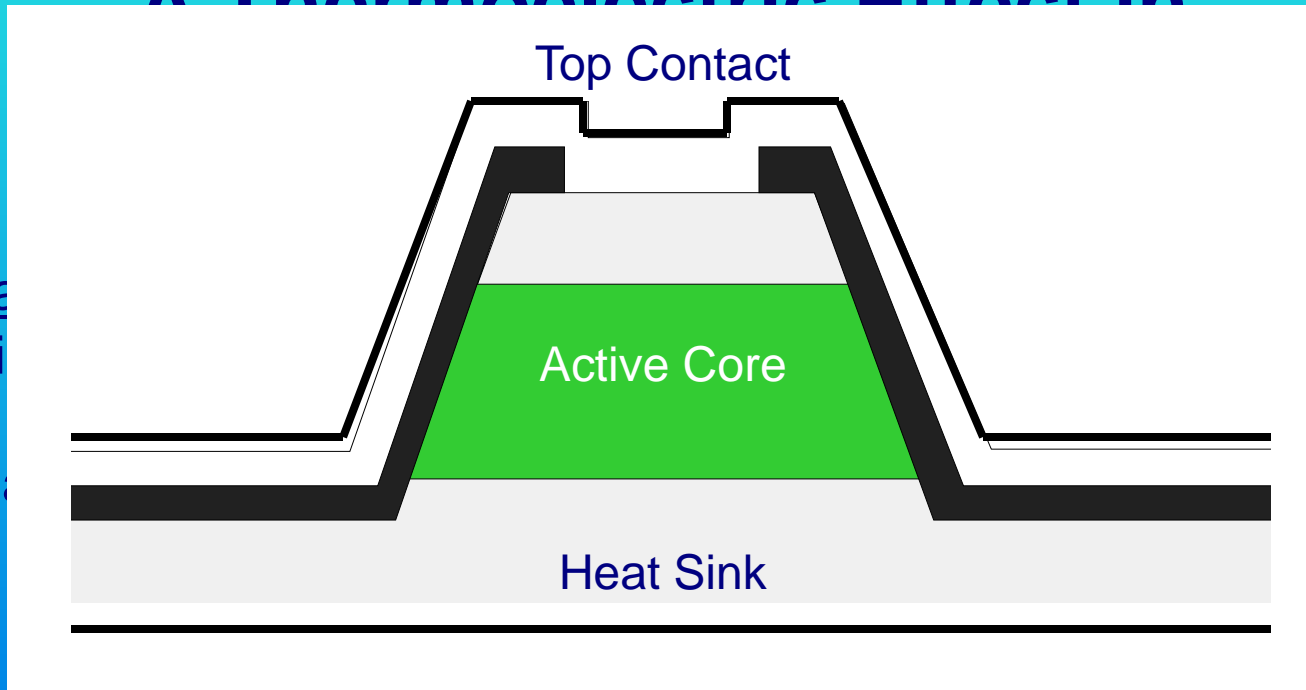




# Quantum Cascade Laser Ridge

## A Thermoelectric Effect in



Anja  
Clai  
\*em

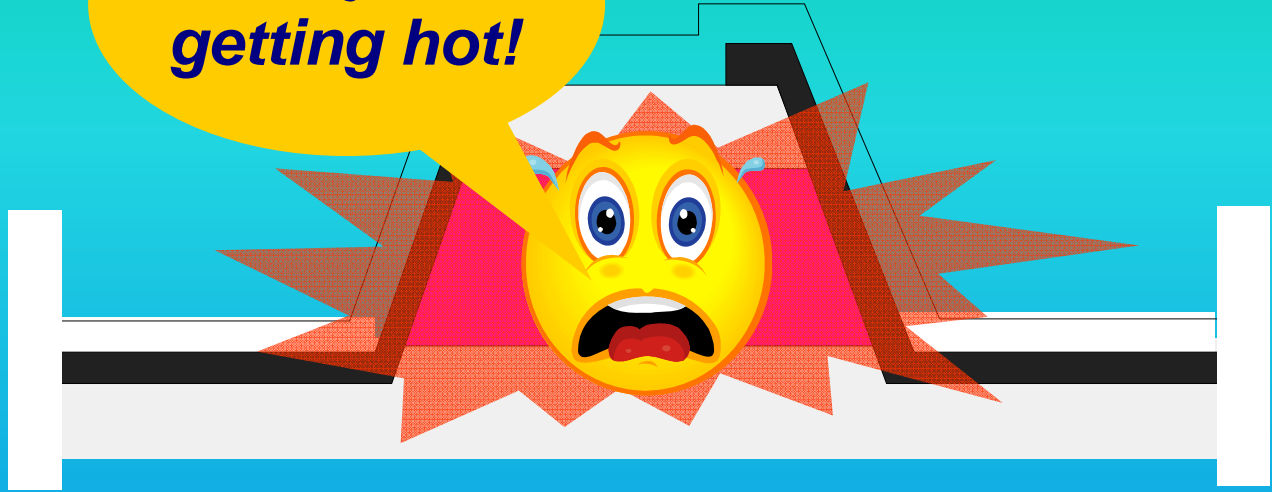
ong,



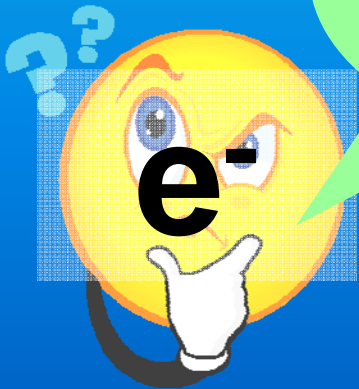


## Overheating of the QC laser active core

*Oh my! I'm getting hot!*



*Which way should I go?*



Does the direction of electric current play a role in heat flow?





# We explore the possibility of a THERMOELECTRIC EFFECT.

## CASE 2:



Direction of electron flow

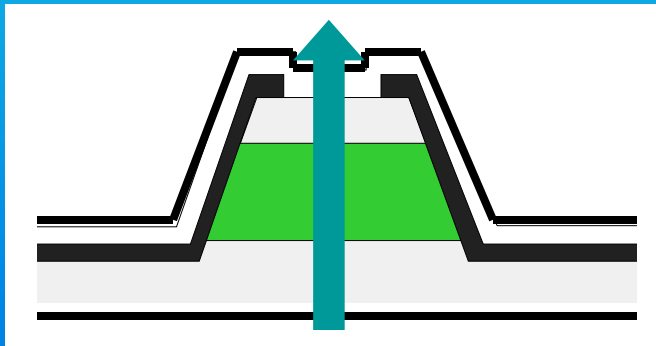
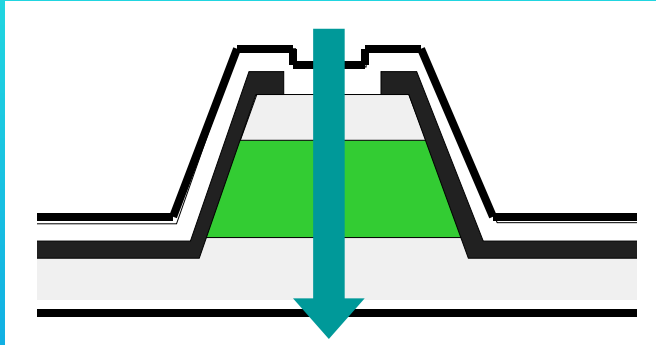




# What happens?

1) Thermal Properties of QC Lasers

2) Optimize Design for High Power, High Temperature Lasers



**Poster #15:**

***A Thermoelectric Effect in Quantum Cascade Lasers?***

**Anjali Bhatt**

