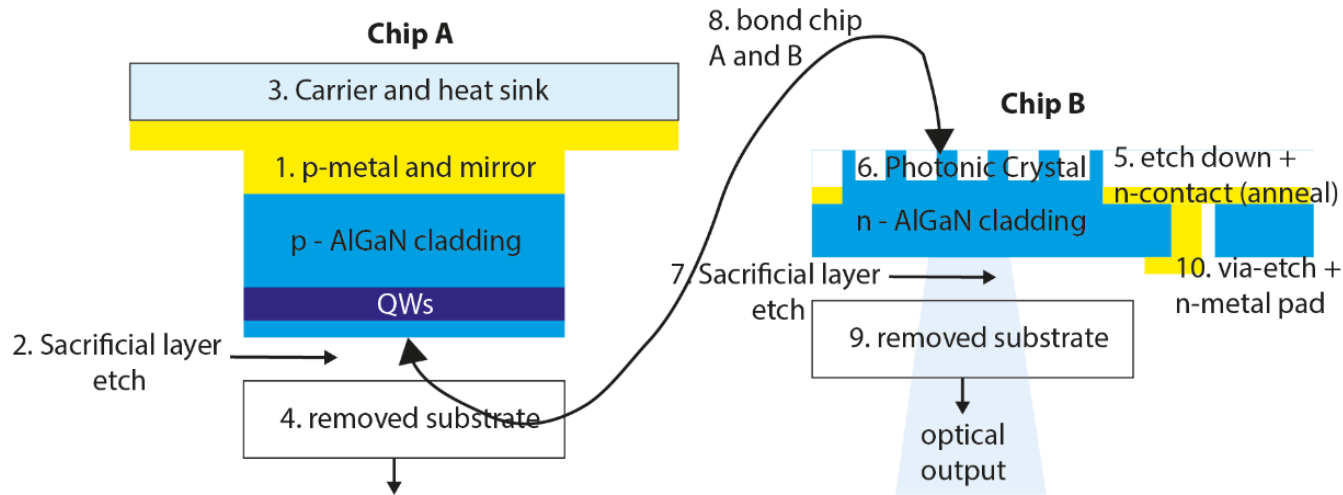


Master thesis proposal

Design of photonic crystal blue/ultraviolet laser

Coherent lasing from large area → photonic crystal:

- large interaction volume between optical field and gain region (in-plane)
- out-of-plane emission by first-order diffraction



Goal:

- Photonic crystal and waveguide design for low threshold gain and high vertical outcoupling

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2 PhD students to start in Aug.!