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Single Frequency $2\mu\text{m}$ MOPA delivering 200mJ at 50Hz

We present a high energy master oscillator power amplifier consisting of a Holmium-doped slab amplifier, a diode-pumped Thulium-slab pump laser, and a single frequency Ho:YLF ring seed laser. The amplifier delivered up to 210 mJ at 2064 nm with a beam quality factor of $M2 \leq 1.4$ in both planes.

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