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A 2-crystal high-power CW and Q-switched Nd:YLF laser at 1314nm

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Abstract content
 (Max 300 words)

A 1314 nm Nd:YLF laser was designed and operated in both CW and actively Q-switched mode. 2 crystals were used inside the same resonator, both were end-pumped by laser diodes operating at 808 nm. The resonator mirrors were chosen to be highly transmittive at 1053 nm and highly reflective at 1314 nm, to force lasing at 1.3 μ m. CW output, with good beam quality, of up to 20 W resulted. Active Q-switching was obtained by inserting an brewster-cut AOM in the cavity. The experimental setup and results will be discussed.

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Level for award
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PhD

Main supervisor (name and email)
and his / her institution

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No

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