

# Multi-point, pulse-train laser ignition of methane-air mixtures by a high- peak power passively Q-switched Nd:YAG/Cr4+:YAG compact laser

*Tuesday, 30 August 2022 12:00 (2 hours)*

Methane-air mixtures were ignited in a constant-volume combustion chamber by a diode-pumped, passively Q-switched Nd:YAG/Cr4+:YAG laser with four beams, yielding single pulses or operating in burst mode with two pulses. A discussion of peak pressure, combustion time and of the ignition limits is made for each type of ignition.

## code

TUE-P-1.1

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**Session Classification:** Lunch and Poster Session 1