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Visualization of High Speed Phenomena during the Ignition Transient of a LOX/GH_2 Coaxial Injected Spray

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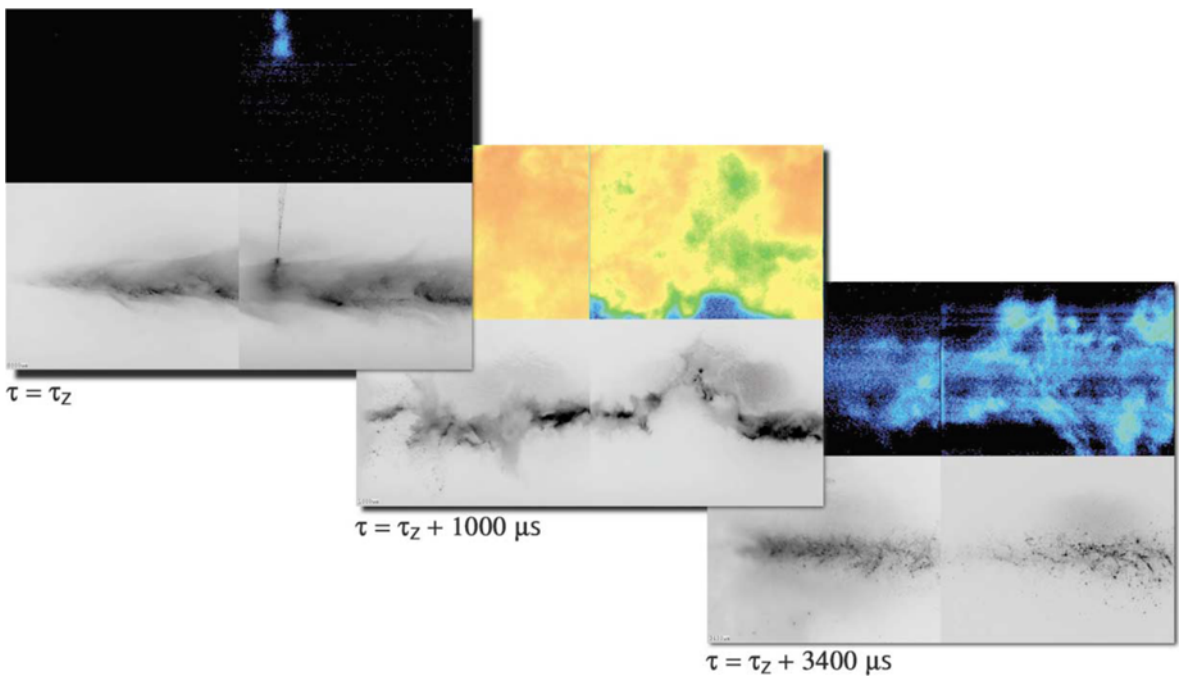

These figures show simultaneously observed images of OH-emission (upper half) and liquid phase distribution (lower half) of near injector region in a cryogenic liquid rocket engine during ignition process initiated by a pulsed Nd:YAG laser. Intensities are shown in logarithmic scales (γ = 3.3). OH-emission intensities are coded using false colour representation. Images are taken at ignition time (τ_z) and at times 1 ms and 3.4 ms after laser induced ignition.