



Maximizing the Luminescent Lifetime of Gas Jets

Researchers around Mingxing Jin are studying luminescent effects in plasmas that are generated by intense laser pulses going through a gas. Their goal is to identify processes that can maximize the luminescent lifetime in the gas. In their setup they shine a laser beam through a fast-moving gas jet and detect the spatial patterns of luminescence by taking quick snapshots at different times after the laser pulse. Spectroscopic analysis of the signal is used to identify the nature of the light emitting molecules. The experiments demonstrate well the practical applications of an ICCD camera for doing fast, time resolved measurements on the nanosecond to microsecond timescale.

Featured Paper/Publication: ["Long-lived" luminous effects in femtosecond laser filament.](#)
Optics Communications, 2018

Reference Lab: Mingxing Jin, Jilin University, China

Featured Product: [PI-MAX](#)

