



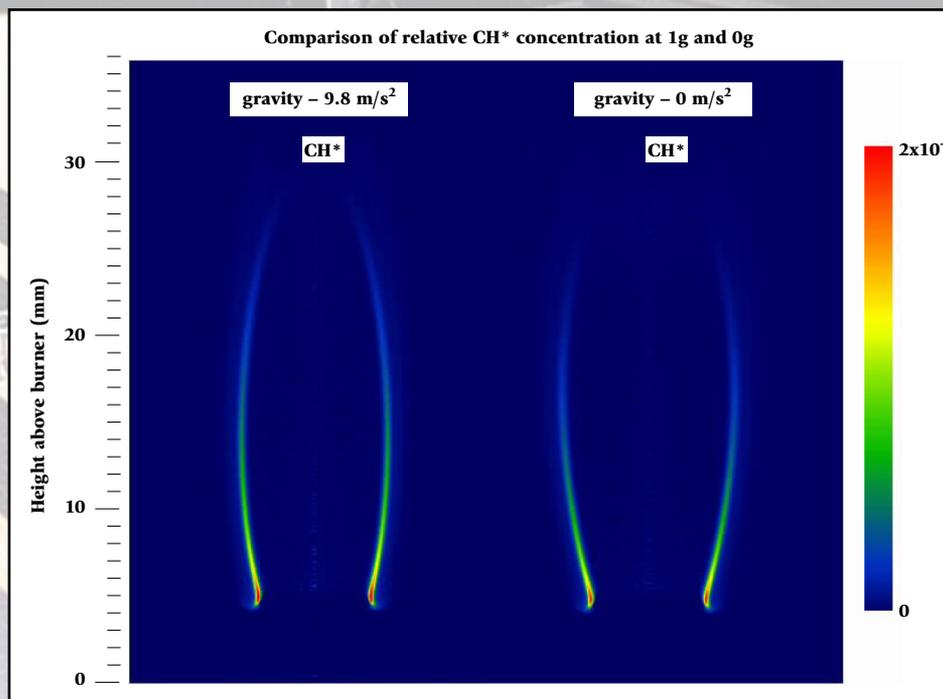
Glenn Research Center



Species, Density, and Temperature Measurements

II. Quantitative Emission Tomography

Laminar CH_4 diffusion flame: Quantitative measurement of CH^*



- Tomographic inversion of raw emission data: $\text{A}^2\Delta \rightarrow \text{X}^2\Pi$ 431.4 nm
- System calibration using Rayleigh scattering
- Quenching correction to establish total population of CH^* radicals