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**Hanna E Makaruk\*** ([hanna\\_m@lanl.gov](mailto:hanna_m@lanl.gov)), Los Alamos National Laboratory, MS D434 P-22, Los Alamos, NM 87545. *Temperature in Laser Inducted Plasma Experiments.*

Fast (picoseconds) process of compressing gas of light elements by a laser impulse and producing plasma is monitored by spectral cameras. Data is saved as 2D images of intensity of the plasma emission as a function of wavelength and time. Image analysis allows finding electrons temperature from the plasma continuous spectra as a function of time. Independent method of temperature assessment, from the spectral lines present in some images supports the image analysis results. (Received August 06, 2007)