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3 An Example of a Simple Equation

The Eikonal ray equation::

$$\frac{d}{ds}\left[n(\vec{r})\frac{d\vec{r}}{ds}\right] = \nabla n(\vec{r}),$$

where $\vec{r} = x \cdot \vec{i} + y \cdot \vec{j} + z \cdot \vec{k}$ is the position vector of a point on the ray and ds is an element of the arc length along the ray. The details of the reconstruction are given in [5] and illustrated on Fig. 2.

The mixture is $2\,H_2 + O_2$ at the initial pressure of $100\,\mathrm{kPa}$ and initial temperature of $298\,\mathrm{K}$.

The velocity of the jet is $10\,\mathrm{m\,s^{-1}}$.

4 Examples of Figures and Tables

Sample figure:

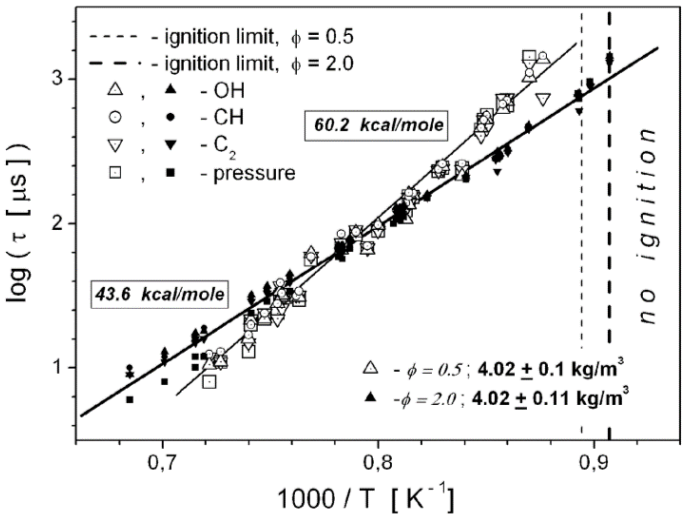

Figure 1: Ignition time vs. reciprocal temperature in lean and rich ethylene/air mixtures for mid post-shock density behind RSW [4].

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Sample table:

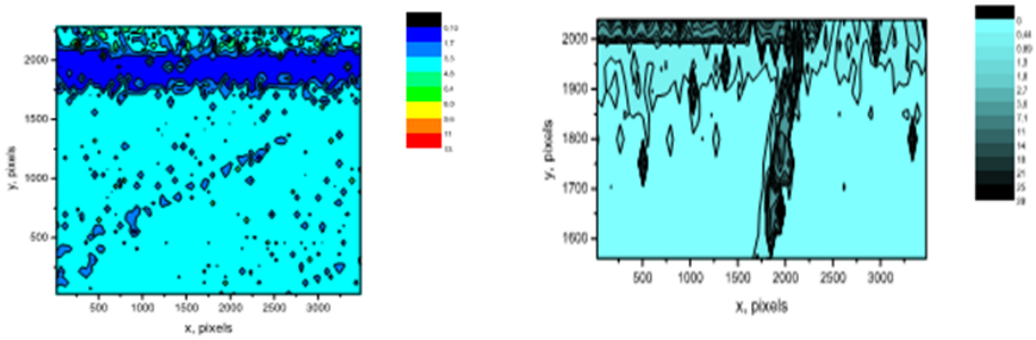

Figure 2: Contours of normalized density. Left: Density gradients isoline in transonic flow, obtained by digital laser speckle photography. Right: Magnified fragment of the flowfield.

Table 1: Characteristics of some prehistoric films for high speed diagnostics.

Type	Resolution, line/mm	Exposure for $D = 1$, $\mu J/cm^2$	Remarks
Agfa 8E75	5 000	10	$\lambda = 632.8nm$
Agfa 8E56	5 000	15 25	$\lambda = 476nm$ $\lambda = 521nm$
Agfa 10E56	2 800	1,4 1,9	$\lambda = 476nm$ $\lambda = 521nm$
Agfa 10E75	2 800	2	$\lambda = 632.8nm$
Agfa 14C70	1 500	0,3	$\lambda = 700nm$
Agfa 14C75	1 500	0,3	$\lambda = 700nm$
Kodak 649F	2 000	70 500	$\lambda = 632.8nm$ $\lambda = 694.3nm$
Kodak 125	1 250	2 5	$\lambda = 441.6nm$ $\lambda = 514.5nm$
Kodak 131	1 250	0.5-0.8	$\lambda = 632.8nm$
Kodak 120-02	1 250	33	$\lambda = 694.3nm$
Kodak TP 2415	320	0.15	$\lambda = 694.3nm$

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[5] Brossard J, Fomin N, Soloukhin R. (1979). Shock tube ignition and detonation studies by resonance (10.6 μ) absorption in propane. Acta Astronaut. 24: 861.

[6] Zel'dovich YaB, Barenblatt, GI, Librovich, VB, Makhviladzw GM. (1985). The mathematical theory of combustion and explosions. Plenum Publishing Corporation (ISBN 0-306-10974-3).