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# Light erosive optical discharges investigation.

## I. Investigation of radially confined light erosive pulsed optical discharges

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*Impact area radial confinements at laser ablation may be natural (at deep holes drilling) or artificial, mainly made for recoil momentum generation efficiency or short wavelength radiation intensity increase. Optical discharges with an ablating wall (excitation time  $\tau \sim 10^{-8}$  s) in a square channel dynamics and macrostructure experimental investigation results are presented both for ambient and vacuum conditions.*

**Keywords:** *optical discharges with ablation wall, radial limitation, dynamics and macrostructure, high-speed shadow and schlieren photoregistration, laser interferometry.*

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