Contribution ID: **74** Type: **Talk**

LIBS Analysis of Pure, Deuterated and Au-doped UDMA:TEGDMA mixture: A Part of the Nanoplasmonic Laser Fusion Experiments

Wednesday 7 September 2022 16:30 (30 minutes)

The presentation discusses various aspects of Laser Induced Breakdown Spectroscopy(LIBS), an emission spectroscopic technique used for elemental analysis. It focuses on the interaction of a femtosecond laser with a pulse duration of 50fs and repetition rate of 10Hzwith the polymeric composition of Urethane Dimethacrylate(UDMA) and Triethylene Glycol Dimethacrylate(TEGDMA), as well as UDMA doped with Au-nanorods.It also explores the behaviour of the deutarised UDMA samples with different laser intensities and delay times of the Laser shots.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

NAPLIFE

Is the speaker for that presentation defined?

Yes

Details

Dr. Archana Kumari
LIBS Analysis of Pure, Deuterated and Au-doped UDMA:TEGDMA mixture: A Part of the Nanoplasmonic Laser Fusion Experiments
Wigner Physics Research Center,
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Webpage: https://wigner.hu/

Internet talk

No

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Session Classification: Workshop on Laser fusion, a spin-off from heavy-ion collisions