

## VII Leopoldo García-Colín Mexican Meeting on Mathematical and Experimental Physics



Contribution ID: 81

Type: **not specified**

### **SADASIVAN SHAJI: Pulsed laser ablation in liquid – Nanocolloids to thin films and devices.**

*Tuesday, 18 February 2020 11:30 (45 minutes)*

Pulsed laser ablation in liquid (PLAL) is an interesting green technique to synthesize nanoparticles of metals, semiconductors, polymers and ceramics. We have synthesized nanoparticles of metals, semiconductors and ceramics using PLAL. Also explored the effects ablation wavelength, fluence and post irradiation effects on the morphology and properties of nanomaterials fabricated. From these nanocolloids, we have prepared and characterized thin films and coatings using different techniques. Also, these thin films were used to fabricate devices like photodetector and solar cells. Details of the characterization and properties nanomaterials by PLAL as well as their thin film device properties are included in this work.

**Session Classification:** PLENARY TALKS

**Track Classification:** SYMPOSIUM ON LASER ABLATION