

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



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MIGUEL ÁNGEL CAMACHO: Short pulsed laser synthesis of nanomaterials and optical characterization of materials at UAEMex.

Thursday, 20 February 2020 18:00 (45 minutes)

In year 2004 we created the “Laboratorio de Fotomedicina, Biofotónica y Espectroscopía Láser de Pulsos Ultracortos”. Since then we have consolidated the Laser Ablation of Solids in Liquids (LASL) technique through a 30 ps Nd:YAG laser system, UV-Vis spectroscopy and photoluminescence (PL) spectroscopy. Our research group focuses on the following topics: synthesis of colloidal nanoparticles by laser ablation of solids in liquids; optical characterization of materials and nanomaterials by using UV-Vis and PL, laser-induced photothermal effects in metallic nanoparticles, optical characterization of radiochromic films and the characterization of the optically stimulated luminescence of some crystals. In this presentation, we will elaborate on the research group activities, our current infrastructure and potential collaborations we are open to.

Session Classification: SHORT TALKS

Track Classification: SYMPOSIUM ON LASER ABLATION