

Pulsed Laser Deposition of YIG and Ti:sapphire

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Pulsed Laser Deposition (PLD) is a versatile film growth method that has been proven successful in the growth of Ti:sapphire and garnets for laser applications.

After a short introduction about PLD in general, the talk will focus on two of the research projects conducted in the PLD group of the Optoelectronics Research Centre (ORC) at the University of Southampton: deposition of Ti:sapphire for the fabrication of waveguide lasers and growth of YIG for microwave and magneto-optic applications. Details about both projects will be provided and a discussion of the results achieved so far will follow.

