Contribution ID: 55 Type: Oral

Simple method for determining quantum efficiency and background propagation loss in thulium-doped fibres

Tuesday, 30 August 2022 17:45 (15 minutes)

A simple method is presented for determining the quantum efficiency and back-ground core propagation loss in Thulium (Tm)-doped fibre lasers. Since the overall laser efficiency is typically limited by one of these two parameters, quantitatively determining their individual contributions is vital to informing the development of future Tm-doped fibres.

Primary authors: BUCKTHORPE, Martin P (Optoelectronics Research Centre, University of Southampton, Southampton, United Kingdom); CLARKSON, William A (Optoelectronics Research Centre, University of Southampton, Southampton, United Kingdom)

Presenter: BUCKTHORPE, Martin P (Optoelectronics Research Centre, University of Southampton, Southampton, United Kingdom)

Session Classification: FWD 2 Thulium lasers and amplifiers