

ARTÍCULO ACEPTADO

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Paper: Comparison of the stability of ring resonator structures for multiwavelength fiber lasers using Raman or Er-doped fiber amplification

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Abstracts:

An experimental comparison of the stability performance of two multiwavelength lasers, based on either an erbium-doped fiber or Raman amplification, is reported. Both systems employ fiber Bragg gratings to select the operating wavelengths within the resonant ring cavity. The aim of this work is to compare the output power stability of the lasers and also their optical signal-to-noise ratios.