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METHOD OF GAUSSIAN FILTRATION OF PHOTODETECTOR NOISE IN THE AMPLIFICATION SPECTRA OF FIBER RAMAN AMPLIFIER

The maximum power of the amplified spontaneous noise in silica single-mode fiber (SMF) is studied experimentally as function of the pump power variation in the idle mode of counter-pumped fiber Raman amplifier (FRA). Method of Gaussian filtration of detector noise in the amplification spectra of fiber Raman amplifier is presented.

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