

# **Abstract**

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## **Backward Pumped Distributed Fiber Raman Amplifier**

This paper investigates Raman gain for backward pumping using three different fiber types. The rate and propagation equations characterizing fiber Raman amplifiers (FRAs) are numerically solved. In this way, the gain is simulated for the given FRA parameters the required fiber parameters and signal/pump power values could be optimized for a desired FRA gain. Gain is obtained as a function of fiber length and pump power. According to the obtained results, gain is strongly dependent on the fiber length and pumping power.