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## Influence of signal input states of polarization on Raman amplification gain in single mode fibres

Raman gain in fibres of low polarization mode dispersion (PMD) depend on the state of polarization (SOP) of the input signal. During forward pumping a large gain variation is observed for certain SOPs when fibre PMD coefficient is below  $0.03 \text{ pskm}^{-1/2}$ . The gain difference is small for fibres of relatively high PMD parameter.

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