24th Australian Institute of Physics Congress



Contribution ID: 283 Type: Poster

Spontaneous high efficiency third harmonic generation in optical fibres

Tuesday 13 December 2022 18:45 (15 minutes)

Third (THG) and one-third harmonic generation (OTHG) have not been used practically despite their unique potential for various applications due to challenging phase matching conditions. Here we propose a stepladder scheme allowing efficient THG and OTHG from spontaneous processes.

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Session Classification: Poster session

Track Classification: WSOF: WSOF: Nonlinear optics