24th Australian Institute of Physics Congress



Contribution ID: 731 Type: Talk (preferred)

Tradeoff between the Brillouin and transverse mode instabilities in high-power fiber amplifiers

Wednesday 14 December 2022 11:00 (30 minutes)

The transverse mode instability is a nonlinear effect that limits the power in high-energy lasers. We describe the phase-matched model for TMI which yields a drastic speedup in computation time with no loss of accuracy.

Author: Dr HU, Jonathan (Baylor University)

Co-authors: Dr MENYUK, Curtis (University of Maryland Baltimore County); YOUNG, Josh (Baylor Univer-

sity)

Presenter: Dr HU, Jonathan (Baylor University)

Session Classification: 7th International Workshop on Speciality Optical Fibres

Track Classification: WSOF: WSOF: Nonlinear optics