

Bar Ilan University , Optics Seminar

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Incoherent Beam combining of High Power Fiber lasers

Abstract:

The limitations of high power single mode fiber lasers such as stimulated Raman scattering, thermal lensing and modal instabilities are presented. In order to scale-up the power from high beam quality fiber laser sources, incoherent beam combining is being employed, yielding a kWatt scale high brightness source .