

LED-pumped CTH:YAG luminescent concentrator as broadband incoherent source in the SWIR

Friday, 2 September 2022 11:30 (15 minutes)

We have demonstrated an incoherent source centred at 2100nm with a bandwidth of 300nm. It is three times brighter spectrally than a blackbody and 10 times brighter than SWIR LEDs. This source consists of a cascade of luminescent concentrators with a Ce:YAG in first and a CTH:YAG in second.

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Session Classification: SSL 7 Tm, Ho Lasers