

Development of Czochralski-grown $\text{La}_{0.733}\text{Nd}_{0.035}\text{Gd}_{0.452}\text{Sc}_{2.75}(\text{BO}_3)_4$ as a new bifunctional laser and nonlinear crystal

Tuesday, 30 August 2022 12:00 (2 hours)

High optical quality 3.5-at.% Nd:LGSB crystal with non-congruent melting was grown by the Czochralski method. The structural, the linear and nonlinear properties, as well as the laser emission characteristics in the near-infrared spectrum by direct emission and in the green visible range through self-frequency doubling were investigated.

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