Contribution ID: **24** Type: **Poster**

Growth and optical properties of the newly developed Pr:LGSB bifunctional crystal

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

Incongruent melting Pr-doped La0.678Gd0.572Sc2.75(BO3)4 (Pr:LGSB) crystals were grown by the Czochralski method, for the first time to our knowledge. The spectroscopic and nonlinear optical properties of the 2.5 at.% Pr:LGSB crystal shown that it can be a promising self-frequency doubling crystal in the UV range at ˜301.5 nm.

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