Electronic Supplementary Information for PCCP
To

“EPR and optical studies of erbium-doped β-PbF₂ single-crystals and nanocrystals in transparent glass-ceramics”

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Figure caption

Figure S1: Absorption spectrum of PbF₂:2%ErF₃ at 10K.

Figure S2: Absorption spectra corresponding to the transition \(^{4}I_{15/2} \rightarrow ^{4}G_{11/2}\) for the different single-crystals. The absorption spectra of PbF₂:0.2%Er and PbF₂:0.02%Er have been multiplied by respectively 10 and 100.

Figure S3: Emission spectra of PbF₂:0.2%Er under different excitation wavelengths using some particular lines of the Ar\(^+\) ion laser: (a) \(\lambda_{\text{exc}}= 476 \text{ nm}\), (b) \(\lambda_{\text{exc}}= 488 \text{ nm}\), (c) \(\lambda_{\text{exc}}= 514 \text{ nm}\). \(T=15\text{K}\).
**Figure S1**: Absorption spectrum of PbF$_2$:2%ErF$_3$ at 10K.

**Figure S2**: Absorption spectra corresponding to the transition $^4$I$_{15/2} ightarrow ^4$G$_{11/2}$ for the different single-crystals. The absorption spectra of PbF$_2$:0.2%Er and PbF$_2$:0.02%Er have been multiplied by respectively 10 and 100.
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