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## Transferability of crystal-field parameters for rare-earth ions in $Y_2SiO_5$ tested by Zeeman Spectroscopy \*

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Zeeman spectroscopy is used to demonstrate that phenomenological crystal-field parameters determined for the two  $C_1$  point-group symmetry sites in  $Er^{3+}:Y_2SiO_5$  may be transferred to other ions. The two crystallographic six- and seven-coordinate substitutional sites may be distinguished by comparing the spectra with crystal-field calculations.

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