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## Isotope shifts in the spectra of LiLuF4:Ho3+ crystals due to the isotopic disorder in the lithium sublattice

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## Abstract

The isotope shifts of lines in the spectra of the LiLuF4:Ho 3+ crystal in the range of the transitions  $5I8 \rightarrow 5I7$ , 5I6, and 5I5 caused by the isotopic disorder with respect to lithium are measured. The shifts of different lines amount to 0.01-0.036 cm -1. A comparison with the previously measured isotope shifts in the spectra of the LiYF4:Ho3+ crystal is made. © 2004 MAIK "Nauka/Interperiodica".

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