Local magnetic order in ^{57}Fe doped $Y(Ce)Co_4B$

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Abstract: In order to monitor the peculiar temperature dependence of the magnetization of the compounds YCo_4B and $CeCo_4B$ from an atomistic point of view, samples doped with 1% ^{57}Fe were studied by Mössbauer spectroscopy. From the two Co-sites present in this structure (2 c, 6 i), only the latter were found to be equipped by Fe. In the case of the Y-compound, the change of direction of the easy axis of magnetization could be confirmed. The broad maximum observed for the magnetization of the Ce-compound is not reflected by the ^{57}Fe hyperfine field.

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