

Accepted Manuscript

New insight in the nature of surface magnetic anisotropy in iron borate

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PII: S0039-6028(17)30609-X
DOI: [10.1016/j.susc.2017.10.015](https://doi.org/10.1016/j.susc.2017.10.015)
Reference: SUSC 21117

To appear in: *Surface Science*

Received date: 11 August 2017
Revised date: 9 October 2017
Accepted date: 16 October 2017

Please cite this article as: M. Strugatsky , K. Seleznyova , V. Zubov , J. Kliava , New insight in the nature of surface magnetic anisotropy in iron borate, *Surface Science* (2017), doi: [10.1016/j.susc.2017.10.015](https://doi.org/10.1016/j.susc.2017.10.015)



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Highlights

- The theory of surface magnetism of iron borate, FeBO_3 , is reexamined
- A model of distortion of local structure on the surface of FeBO_3 is developed
- The spin Hamiltonian for Fe^{3+} ions on the surface is put forward
- Crystal field contribution to surface anisotropy of FeBO_3 is calculated
- Experimental studies of surface anisotropy suggest relative contractions of ca. 1%

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