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# MAGNETIC PROPERTIES OF PEROVSKITE MANGANITES AND THEIR MODIFICATIONS

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## FUTURE SCALING POTENTIAL OF PARTICULATE MEDIA IN MAGNETIC TAPE RECORDING<sup>☆</sup>

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<sup>☆</sup> This chapter is an updated and expanded version of the information published in the following two papers: "Scaling tape recording areal densities to 100 Gb/in<sup>2</sup>" by A. J. Argumedo, D. Berman, R. G. Biskeborn, G. Cherubini, R. D. Cideciyan, E. Eleftheriou, *et al.*, *IBM J. Res. Develop.*, Vol. 52, No. 4/5, pp. 513–527, July/September 2008, and "29.5-Gb/in<sup>2</sup> recording areal density on barium ferrite tape" by G. Cherubini, R.D. Cideciyan, L. Dellmann, E. Eleftheriou, W. Haeberle, J. Jelitto *et al.*, *IEEE Trans. Magnet.*, Vol. 47, No. 1, pp. 137–147, January 2011.

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## MAGNETISM AND STRUCTURE IN LAYERED IRON SUPERCONDUCTOR SYSTEMS

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