

# SMALLER GUARD-BAND FOR LARGER SPATIAL DENSITY INFORMATION IN TAPE MAGNETIC RECORDING

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**Abstract:** *The influence of the guard-band width on the electrical response of a polarized AMR multitrack reading head is studied by numerical simulations. The calculations are made by using a macroscopic-microscopic coupling technique dedicated to the magnetic-recording multiscale problems.*

**Keywords:** *magnetic tapes, AMR reading heads, micromagnetism*

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