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Multicritical behavior of the two-dimensional transverse Ising metamagnet in a longitudinal magnetic field

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***Highlights (for review)**

Highlight (for review)

- I) Anisotropic Ising superantiferromagnet on a square lattice;
- II) Mean-field theory;
- III) Quantum phase transition and first- and second-order transitions.

Yours sincerely,

Minos Martins Adão Neto

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