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**Magnetization Plateau of Classical Ising Model on Shastry-Sutherland Lattice**<sup>1</sup> MING-CHE CHANG, National Taiwan Normal University, MIN-FONG YANG, Tunghai University — Magnetization of the classical antiferromagnetic Ising model on the Shastry-Sutherland lattice is investigated using the tensor renormalization group approach. We find a single magnetization plateau at  $1/3$  of the saturation value and investigate its dependence on temperature and frustration. The spin configuration of this plateau has also been determined.

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