

# Thermodynamics of Scalar-Tensor AdS Black Holes Coupled to Nonlinear Electrodynamics

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We construct new numerical solutions describing charged anti-de Sitter black holes coupled to nonlinear Born-Infeld electrodynamics within a certain class of scalar-tensor theories and we study their thermodynamic phase structure. It is shown that for certain charge intervals phase transitions of zeroth and first order exist.

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