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Regularised Kalb-Ramond Magnetic Monopole with Finite Energy

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We propose a model for a self-gravitating electromagnetic monopole in a string-inspired model in the presence of Kalb-Ramond torsion and dilaton. The model includes a regularisation of the core of the monopole. We give arguments for the existence of a thin shell structure inside the core and a bag-like structure of the monopole. The regularisation of the inner-core involves a de Sitter metric and allows a determination of the thin shell structure of the monopole. The monopole mass and charge are proportional to the torsion strength.

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