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High Energy Physics - Theory

Linear Sigma Models with Torsion

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Gauged linear sigma models with (0,2) supersymmetry allow a larger choice of couplings than models with (2,2) supersymmetry. We use this freedom to find a fully linear construction of torsional heterotic compactifications, including models with branes. As a non-compact example, we describe a family of metrics which correspond to deformations of the heterotic conifold by turning on H-flux. We then describe compact models which are gauge-invariant only at the quantum level. Our construction gives a generalization of symplectic reduction. The resulting spaces are non-Kahler analogues of familiar toric spaces like complex projective space. Perturbatively conformal models can be constructed by considering intersections.

- Comments: 40 pages, LaTeX, 1 figure; references added; a new section on supersymmetry added
- Subjects: **High Energy Physics Theory (hep-th)**; Algebraic Geometry (math.AG)
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