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He Feng* (fenghe@vt.edu), 216 Robeson Hall, Department of Physics (MC 0435) Virginia Tech, 850 West Campus Drive, Blacksburg, VA 24061, and **Lara B. Anderson**. *New Evidence for (0,2) Target Space Duality*.

In the context of (0,2) gauged linear sigma models, we explore chains of perturbatively dual heterotic string compactifications. The notion of target space duality originates in non-geometric phases and can be used to generate distinct GLSMs with shared geometric phases leading to apparently identical target space theories. To date, this duality has largely been studied at the level of counting states in the effective theories. We extend this analysis to the effective potential and loci of enhanced symmetry in dual theories. By engineering vector bundles with non-trivial constraints arising from slope-stability (i.e. D-terms) and holomorphy (i.e. F-terms) the detailed structure of the vacuum space of the dual theories can be explored. Our results give new evidence that GLSM target space duality may provide important hints towards a more complete understanding of (0,2) string dualities. (Received September 06, 2016)