

CONFORMAL STRUCTURE OF MINIMAL SURFACES WITH FINITE TOPOLOGY

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ABSTRACT. We show that a complete, embedded minimal surface in \mathbb{R}^3 with finite topology and one end is conformal to a once-punctured compact Riemann surface. Using the conformality and embeddedness, we show the Weierstrass data is asymptotic to that of the helicoid. As a corollary, we see that the end is C^0 asymptotic to a helicoid.