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Compactness of embedded minimal surfaces

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Abstract: In a fundamental 1985 paper, Choi and Schoen studied sequences of compact minimal surfaces with fixed genus embedded in a Riemannian manifold of positive Ricci curvature. They proved that such sequences converge to a compact minimal surface, that is again embedded and of fixed genus, showing that the space of all minimal surfaces with these properties is compact in the smooth topology. In this talk we will discuss their proof and see how similar ideas have been used to obtain other more recent results in minimal surface theory and geometric analysis.

