

**SPEAKER:**

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**TITLE:**

Existence of Einstein metrics with prescribed boundary conformal metric and mean curvature

**ABSTRACT:**

We discuss results on the existence of compact (Riemannian) Einstein metrics with the prescribed conformal boundary metric and mean curvature. In three dimensions, this problem can be reduced to a question about conformal embeddings into the 3-dimensional spaceform whose induced mean curvature is the given scalar function, thus confirming a conjecture of M. Anderson. This talk is based on joint work with Zhongshan An (University of Michigan).