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Local-to-global classification of ambitoric 4-manifolds via uniformization.

A manifold is said to be ambitoric if it admits the structure of a toric Kähler manifold in two ways, with the two structures sharing the torus action and the conformal class of the metric, but not the orientation. These have been studied by Apostolov, Calderbank, and Gauduchon, who provide a local classification. I will discuss how to extend this local classification to a global classification using Kulkarni's principle of uniformization.