

Drawing 5-dimensional manifolds using contact geometry

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Manifolds of low dimension can be depicted faithfully using 2-dimensional pictures. In dimensions 3, 3 and 4, this is done by decomposing the manifold into 'handles'. For 5-dimensional manifolds, we need 'open books' and contact geometry to get a similar picture. In this talk, I will try to explain to you how these pictures can be drawn. This is based on the following paper by Geiges:

<https://arxiv.org/abs/1704.00919>