

Visualizing the Design

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The design is a common subset of a Casson handle and a standard smooth 2-handle; understanding how it sits in both subsets is the key to constructing a homeomorphism between the two spaces, and is the heart of Freedman's proof of the 4-dimensional Poincare Conjecture. I will talk a little about the design and some related topics (gropes, kinks, shrinkability) and how to really visualize what's going on.