A Smith-Thom inequality for real algebraic stacks

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Abstract

The Smith-Thom inequality bounds the topology of the real points of an algebraic variety by that of its complex points. While this inequality holds for varieties, it fails for many moduli spaces in real algebraic geometry, which are more naturally described as stacks. In this talk, we propose a conjectural Smith-Thom-type inequality for real stacks and verify it in some cases. This is a joint work with Olivier de Gaay Fortman

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