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The topological Lie operad

The classical Lie operad is an operad of modules whose algebras are Lie algebras. Algebras which have the homotopy type of a Lie algebra are called strongly homotopy Lie algebras (or sometimes L_∞ -algebras), and there is another operad which detects these. We construct a topological version of the L_∞ operad, whose algebras are topological spaces.