ALGEBRA SEMINAR

Context free manifold functor calculus and the little discs operad

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ABSTRACT: I will give a concise introduction to the manifold functor calculus. This theory was invented by Goodwillie and Weiss in order to study embedding spaces. Given a cover U_i of a manifold M, and another manifold N, one can ask: "Can we recover $\mathrm{Emb}(M, N)$ from $\mathrm{Emb}(U_i, N)$?". In other words the question is weather one can reassemble the local data to get information about the global space of embeddings. I will also explain how this method can be translated into the language of operads.

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DEPARTMENT OF MATHEMATICS