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Title: The infinitesimal calculus of topoi

Abstract: I will develop the analogy of ∞ -topoi and commutative rings by providing a notion of ideal and of product for these ideals.

I will explain how this recovers Goodwillie calculus and describes the topos of parametrized spectra as classifying nilpotent sheaves.

This is joint work with G. Biedermann, E. Finster, and A. Joyal. This is also an introductory talk for G. Biedermann's lectures.