TOPOLOGY SEMINARS

Simplicially enriched categories

By

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Abstract: We are used to form a category of spaces whose morphisms are homotopy classes of maps. This category is inadequate for a lot of constructions. Instead one would look for a structure that records homotopies, homotopies between homotopies, and so on. The periodic table of elements predicts this structure to be an infinity-category with all higher morphisms invertible. Categories enriched over simplicial sets serve this purpose and constitute a model for such infinity-categories.
We will define their coherent nerve and provide a relationship with quasi-categories.

Date: March 18, 2019 Monday
Time: 13:40 – 14:40
Place: SA141 Mathematics Seminar Room

* Tea and cookies will be served after the talk. All are most cordially invited.