

A generalized Blakers-Massey Theorem

mercredi 12 octobre 2016 15:20 (50 minutes)

(joint with M. Anel, E. Finster, and A. Joyal)

We present a generalized version of the Blakers-Massey Theorem in the context of ∞ -topoi. The proof refines a proof of the classical theorem by Finster and Lumsdaine given in the language of Homotopy Type Theory and its “re-engineered” version by Rezk. The main tools are certain factorization systems (modality) and homotopical descent. The classical theorem and a recent generalization due to Chacholski-Scherer-Werndli are easy consequences.

As an application we prove a conjecture by Goodwillie: a Blakers-Massey Theorem for the calculus of homotopy functors. From it we obtain an independent proof of the fact that homogeneous functors deloop.

Auteur: Dr BIEDERMANN, Georg (LAGA, Paris 13)

Orateur: Dr BIEDERMANN, Georg (LAGA, Paris 13)

Classification de thématique: Topologie algébrique et applications