

**Notice:** Trying to get property of non-object in `/home/topalg/www/plugins/joomfish/missing_translation.php` on line **70**

There are no translations available.

**Speaker:** Luca Pol (University of Regensburg)

**Title:** The universal property of bispanns

**Place:** Room Seminar C3b (C3b/158)

**Date:** Thursday Seotember 23rd, 9:30

**Abstract:** Many algebraic definitions and constructions can be made in a derived or homotopy invariant setting and as such make sense for ring spectra. Dwyer-Greenlees-Iyengar (followed by Barthel-Heard-Valenzuela) showed that one can make sense of local Gorenstein duality for ring spectra. In this talk, I will show that cochain spectra  $C^*(BG;R)$  satisfy local Gorenstein duality surprisingly often, and explain some of the implications of this. When  $R=k$  is a field this recovers duality properties in modular representation theory conjectured by Benson and later proved by Benson-Greenlees. However, the result also applies to more exotic coefficients  $R$  such as Lubin-Tate theories, K-theory spectra or topological modular forms, showing that chromatic analogues of Benson's conjecture also hold. This is joint work with Jordan Williamson.

See the calendar for upcoming events.