

# Nicolae Popescu Number Theory Seminar

## *Relative Brauer relations of abelian $p$ -groups*

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**Abstract:** The Brauer relations of a finite group  $G$  are virtual differences of non-isomorphic  $G$ -sets  $X-Y$  which induce isomorphic permutation  $G$ -representations  $\mathbf{Q}[X] \approx \mathbf{Q}[Y]$  over the rationals. These relations have been classified by Tornehave-Bouc and Bartel-Dokchitser. Motivated by stable homotopy theory, a relative version of Brauer relations for  $(G, C_p)$ -bisets which are  $C_p$ -free have been classified by Kahn in case  $G$  is an elementary Abelian  $p$ -group. In this talk, we extend Kahn's classification to the case when  $G$  is a finite Abelian  $p$ -group.

**Tuesday September 28, 2021, 15:00**

**Join Zoom Meeting**

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