



# ALGEBRA SEMINAR

## Extensions of simple biset functors

By

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**Abstract:** The simple biset functors  $S_{H,W}$  over a commutative ring  $F$  are parametrized by pairs  $(H, W)$  of a finite group  $H$  and a simple  $\text{FOut}(H)$ -module  $W$ . When  $F$  is a field of characteristic 0, I will describe some consequences on the structure of  $G$  and  $H$  of the existence of a non-split extension of  $S_{G,V}$  by  $S_{H,W}$ . On the way, the notions of 'minimal  $B$ -group' and 'atoric nilpotent group' will be introduced. Finally, I will consider similar results for extensions of simple functors for groups of odd order over a field of characteristic 2.

**Date:** Wednesday, October 5, 2022

**Time:** 11:00 – 12:00 (UTC+3)

**Place:** ZOOM. This is an online seminar. To request the event link, please send a message to [d.yilmaz@bilkent.edu.tr](mailto:d.yilmaz@bilkent.edu.tr)