

ALGEBRA SEMINARS

Brauer pairs, pointed groups, and block fusion

By

Matthew Gelvin

(Bilkent)

Abstract: In this talk we will describe how a block B of the finite group G gives rise to a fusion system on the block's defect group D. The rough idea is that G induces conjugacy relations among the subgroups of D, but we only consider those conjugations that respect B. To make sense of what this means, we introduce the notion of a Brauer pair, whose technical properties we will prove by considering the more refined notion of a local pointed group.

Date: November 12, 2018

<u>Time:</u> 10:40 – 11:50

Place: SA141 Mathematics Seminar Room

^{*} Tea and cookies will be served before the talk. All are most cordially invited.