



Texas State Topology Seminar

Friday, 2019, March 1, 11:00-11:50 a.m., in DERR 333

Speaker: Dr. William Grilliette

Topic: *Generalized Comma Categories*

ABSTRACT

This talk considers a generalization of the comma category, where squares need not commute but are restricted by a prescribed preorder. This generalized comma category can be used to create categories of weighted sets, premetric spaces, and measure spaces. Moreover, the construction of the L^p -space of a measure space becomes a functor from the category of measure spaces to the category of Banach spaces.