



THE UNIVERSITY of
MISSISSIPPI

Department of Mathematics

AMS Graduate Student Seminar

Page Thorn

The Fremlin Tensor Product on Subspaces of Continuous Functions

Thursday, March 25, 2021

11:00AM on Zoom

Meeting ID: 960 1290 4947

Passcode: AMS

Abstract: The space of continuous functions on a compact Hausdorff space X , denoted $C(X)$, is an excellent example of a Riesz space. Fremlin's Riesz space tensor product, denoted by $\bar{\otimes}$, enables us to combine two Riesz spaces to create a third, which is rarely accomplished by the algebraic tensor product. In this talk, we explore how various Riesz subspaces are affected in this process. In particular, we make statements of the type:

“If $A \subseteq C(X)$ and $B \subseteq C(Y)$ are each of type P in their respective spaces, then $A\bar{\otimes}B$ is (or is not) of type P in $C(X)\bar{\otimes}C(Y)$.”