## DEFENSE OF THE DOCTORAL DISSERTATION

"An HKR theorem for factorization homology"

Hari Rau-Murthy



Monday, July 3, 2023

Time: 4:30 PM

Location: 258 Hurley Bldg.

Zoom Link:



**Examination Committee:** 

Mark Behrens, Advisor

Stephan Stolz

Chris Schommer-Pries

Larry Taylor



## **Abstract:**

We prove a Hochschild-Kostant-Rosenberg theorem ("the HKR theorem") which computes the factorization homology of certain smooth commutative ring spectra. In doing so we fix and generalize a THH computation which was first conceived as the brainchild of McCarthy-Minasian. Included also is a direct application of our revised HKR theorem to the higher THH of rational KU.