



Department of
Mathematical Sciences

Colloquium

Dr. Bena Tshishiku

Assistant Professor of Mathematics

Brown University

Friday,
October 29th, 2021
@ 2:00pm

Hybrid online and
in-person



**Dr. Bena
Tshishiku**

UW-Milwaukee
Department of
Mathematical Sciences

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Mapping class groups and Nielsen realization problems

The mapping class group $\text{Mod}(M)$ of a smooth manifold M is the group of diffeomorphisms of M , modulo isotopy. The study of mapping class groups interacts with many areas, including geometric topology, group theory, and dynamics. We explain some of these connections from the point-of-view of the Nielsen realization question, which was asked in different forms by Nielsen (1906) and Thurston (1977), and which seeks to understand (1) the algebraic structure of $\text{Mod}(M)$, (2) dynamical properties of groups of diffeomorphisms, and (3) geometric structures on fiber bundles.

**This event will be held in-person at EMS, Room E495 and
streamed online via. Microsoft Teams.**

Link to online event: <https://bit.ly/3m65sBt>



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