



Idaho State  
University

Mathematics  
and Statistics

# Colloquium

## Yang-Baxter Equation, Algebraic Structures and Invariants of Links

**Dr. Mohamed Elhamdadi**

University of South Florida

We will discuss some solutions to set theoretic Yang-Baxter equation. Then we will focus on the interesting case of quandles. We will show how to construct invariants of Links from quandles and idempotents in quandle rings. We will also give a complete characterization of Derivations on the quandle algebra of dihedral quandles. This initiates a homological study of quandle rings.

**Friday, April 12**

**3:00 pm**

**PS 307**

or Zoom: <https://isu.zoom.us/j/83918530990>

