



# COLLOQUIUM

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**A (larger) taxonomy of Dedekind-finite rings and reflexive rings.**

**Friday February 10<sup>th</sup> at 2:30pm in RT 1516**

*Bio:* Dr. Szabo is a native of Cleveland, a graduate of both Cleveland State University (BS Electrical Engineering, MS Applied Mathematics) and Ohio University (Ph.D. Mathematics) and a former computer engineer based in Cleveland with Gould instrument Systems and Data Sciences International. Now, he is an associate professor at Eastern Kentucky University in Richmond, Kentucky (near Lexington) where he studies both topics in coding theory and ring theory.

*Abstract:* A taxonomy of Dedekind finite rings and reflexive rings will be given including connections between ring properties defined on elements and those defined on ideals. Symflexive (symmetrically-reflexive) rings will be introduced (formerly, ideal-symmetric) showing their natural place in the given taxonomy. The ring classes of prime, semiprime, symflexive and reflexive form a chain by inclusion. Characterizations of Morita context rings of each of these types will be given showing their close connections. Other topics relating to the taxonomy will also be discussed as time permits.

**Refreshments will be served in RT 1517 at 2:00pm**