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Drazin adjoints

Drazin inverses, a type of generalized inverses, concerns endomaps which are invertible after a certain number of iterations. These structures have been studied extensively in ring and semi-group theory, and most recently in category theory.

Weakening the rules of Drazin inverse produces a certain sort of weak adjunction, which we call Drazin adjunction — a situation when an object in a (symmetric) monoidal category is dual to another "in the presence of a context".

In this talk, we will present Drazin inverses and their generalization called Drazin adjoints and contrast their algebraic properties. This is joint work with Robin Cockett.

This talk is aimed to be category theory beginner friendly.