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Dagger-Drazin Inverses

Drazin inverses are a special kind of generalized inverses that can be defined for endomorphisms in any category. The notion of Drazin inverse can be extended to arbitrary maps (not simply endomorphisms) in the setting of dagger categories. We call this extension as dagger Drazin inverses.

In this talk, I shall introduce dagger Drazin inverses, discuss its properties and examples, and sketch out the connections between dagger Drazin inverse and its close relatives – Drazin inverse and Moore-Penrose inverse.

This is joint work with Robin Cockett and JS Pacaud Lemay.