



Iowa Colloquium on
Information, Complexity, and
Logic

April 25th Meeting

Location: Grinnell College in Noyce 2517

[Map of Grinnell College](#)

[Parking Map](#)

Time: Thursday, April 25th at 3:00 PM

Speaker: Diego Rojas (Iowa State University)

Title: A Framework for the Reverse Mathematics of Free Quasigroups

Abstract: The notion of a group generalizes to a quasigroup, a set equipped with a binary operation $*$ in which knowledge of any two arguments in an equation of the form $a*b=c$ determines the third one uniquely. In this talk, we discuss a framework for studying theorems about quasigroup words in the setting of reverse mathematics. In particular, we show that Evans' Normal Form Theorem for quasigroup words is provable in RCA_0 using this framework, and we mention some future work in this direction. This is joint work with Alex Nowak.

Parking Information: Parking Lot J is recommended and located just south of 10th Avenue, across from the athletic center. Visitors can also park on the residential streets a block away from campus on Elm Street or 10th Avenue.