

# The Girdle Schema

David Anthony Bau

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We will attempt to, as much as possible, use the terms used in actual model theory to describe the classes of Girdle.

Every proof the user writes will consist of a sequence of **steps**.

A **step** will either be a **formula**, a **definition**, or an **explicit application**.

A **formula** is a tree of the following operators:

1. The logical operators:  $\wedge, \vee, \implies, \iff, \neg, \exists, \forall, =$
2. Any defined relational operators  $R(a, b, c, \dots)$ .
3. Any define functional operators  $F(a, b, c, \dots)$ .