

Topos Theory and Categorical Logic

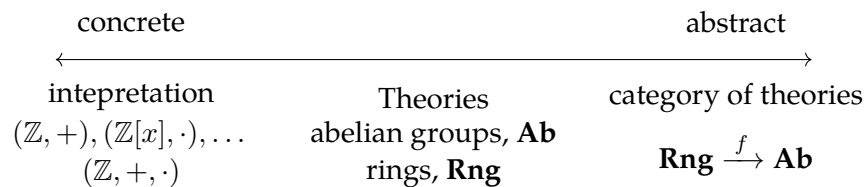
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April 11, 2020

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1 An Invitation to Topos Theory



mathematical logic: theorems and proofs are mathematical objects

Definition 1.1. A **category** \mathcal{C} has objects $X, Y, Z \dots$ and **morphisms** $f : X \rightarrow Y, g : Y \rightarrow Z$ and **compositions** rule $(g, f) \mapsto g \circ f : X \rightarrow Z$