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An elementary definition of globular weak ∞ -groupoids

Combining Grothendieck's definition of weak ∞ -groupoids with ideas originating from dependent type theory, one can obtain a simple, explicit and elementary definition of globular weak ∞ -groupoids. I will present this definition and discuss some work in progress related to the development of homotopy theory and higher category theory based on globular weak ∞ -groupoids. No prior knowledge of type theory will be needed.