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Nick Gurski, Niles Johnson and **Angélica M Osorno***, aosorno@reed.edu. *Picard 2-categories and stable 2-types.*

It is a classic result that groupoids model unstable homotopy 1-types, and that lead to Grothendieck's homotopy hypothesis: n -groupoids model unstable n -types. In this talk I will talk about the stable version of the hypothesis: that is, Picard n -groupoids (i.e., symmetric monoidal n -categories with invertible cells in all dimensions) model stable homotopy n -types. I will talk about the proof for the case $n = 2$, and I will explain how some of the homotopy invariants can be read directly from the categorical side. (Received August 09, 2017)