

# BRAIDED SKEW MONOIDAL CATEGORIES

JOHN BOURKE

Abstract: Skew monoidal categories are a certain laxified version of monoidal category. They were introduced by Szlachanyi in 2012 because they classify bialgebroids over rings. In 2016 I described some examples of these structures arising in higher category theory.

A natural question to ask is: “what is the correct notion of braiding in the skew context?” The answer is not, perhaps, what one might first guess. In this talk I will define braided skew monoidal categories and give some examples of them. This talk is based on joint work with Steve Lack.