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Nancy Scherich and **Sherilyn Tamagawa*** (shtamagawa@davidson.edu). *Virtual Niebrzydowski Algebras and Trivalent Spatial Graphs*. Preliminary report.

In this talk, we will introduce virtual Niebrzydowski algebras, algebraic structures with two ternary operations and a partially defined multiplication, whose axioms are motivated by the Reidemeister moves for Y-oriented virtual trivalent spatial graphs and handlebody-links. We will also show examples of the counting invariant on some trivalent spatial graphs. (Received September 15, 2019)