Introduction to Categorical Logic

80-514/814

Suggested Topics for Student Projects

Updated: February 9, 2024

Come talk to me for more information about any of these topics. And feel free to suggest others!

1. Lawvere duality

   - Adamek, Lawvere, Rosicky: On the duality between varieties and algebraic theories, Algebra Universalis, 2003.
   - Adamek, Rosicky, Vitale: Algebraic theories, Cambridge University Press, 2010.

2. Gabriel-Ulmer duality

   - Makkai, Pitts, Some results on locally finitely presentable categories, Transactions of the AMS 1987.
   - Adamek, Rosicky, Vitale: Algebraic theories, Cambridge University Press, 2010.

3. Lawvere duality in posets

   - P.T. Johnstone, Stone Spaces, Cambridge University Press, 1982.