



**Speaker:** Aleks Kissinger

**Title:** Working with PyZX

**Abstract:** ZX-diagrams is a useful tool for representing, transforming, simplifying, decomposing, and generally reasoning about quantum circuits. However, even for small, NISQ-era circuits (e.g. tens or hundreds of gates) it is not very practical to work with diagrams by hand. In this talk, I will give a brief overview of some of the techniques developed by myself and others over the past few years for transforming, simplifying, and checking circuits using the ZX-calculus and the PyZX tool.