The ZX-calculus and quantum computation

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The ZX-calculus is a formal system for reasoning diagrammatically about quantum computation which admits an encoding of the circuit model and measurement-based quantum computation. In this talk, I'll give an introduction to the calculus itself, survey some of the most important theorems, techniques, and open problems, and demonstrate the implementation of the ZX-calculus in Quantomatic, a diagrammatic proof assistant.