## LANGLANDS DUALITY IN QUANTUM TOPOLOGY

## DAVID JORDAN

Geometric Langlands duality conjectures arose from applying Weil's Rosetta stone, which relates arithmetic of function fields to geometry of complex curves. The MKR dictionary relates number fields to 3-manifolds, and so it is natural to ask what does geometric Langlands duality look like for 3-manifolds, indeed what are the basic ingredients? In this talk I'll explain that certain quantum invariants called skein modules should play this role, and I'll share a Langlands duality conjecture for skein modules. I'll explain some special cases which are known, and some interesting tools which arise.

1