1154-20-1571 **David Vogan***, Room 2-355, MIT, 77 Massachusetts Avenue, Cambridge, MA 02139. Local Langlands conjecture for finite groups of Lie type. Preliminary report.

In the late 1960s, Langlands' study of automorphic forms led him to a remarkable conjecture about the representation theory of reductive groups over local fields. The simplest and most fundamental case of this conjecture says that if Fis any local field, then the (infinite-dimensional) irreducible representations of GL(n, F) are indexed (approximately) by the *n*-dimensional representations of the Galois group of F.

In the 1970s, Macdonald formulated and proved an analogue of Langlands' conjecture for the finite group $GL(n, \mathbb{F}_q)$. I will explain how one can extend Macdonald's formulation to any finite group of Lie type; what results of Lusztig and Shoji offer toward proof of this extension; and how these questions are related to Langlands' (still unproven!) conjecture about local fields. (Received September 16, 2019)