1117-37-139Jonathan Fickenscher\* (jonfick@princeton.edu), Fine Hall - Washington Road, Princeton,<br/>NJ 08544, and Michael Damron. The number of ergodic measures for minimal shifts of low<br/>complexity II - shifts related to interval exchange transformations.

This talk is joint work with Michael Damron.

A general interval exchange transformation on d intervals may expressed as a minimal shift with complexity function p(n) satisfying p(n) = (d-1)n + 1 for all  $n \ge 0$ . It was shown by A. Katok in 1973 that such systems admit at most d/2 ergodic probability measures. His proof is geometric in nature.

In 1985, Boshernitzan showed combinatorially that a shift with such a complexity function may have at most d-2 ergodic measures. Recently, we improved this bound to d-3.

By considering a class of shifts that satisfy a "regular bispecial condition" (a condition satisfied by interval exchange transformation shifts), we are able to further improve the bound to one of the form Cn where C < 1. (Received January 10, 2016)