

1118-55-140

**Rita Jimenez Rolland\*** ([rita@matmor.unam.mx](mailto:rita@matmor.unam.mx)). *Representation stability and point counting.*

In this talk we will consider some families of varieties with actions of certain finite reflection groups – varieties such as the hyperplane complements associated to these groups. Using results of Grothendieck–Lefschetz and Lehrer we can relate the topology of those varieties with point counts over finite fields. Our main objective is to explain how the theory of representation stability developed by Church–Ellenberg–Farb and Wilson corresponds to asymptotic stability of these point counts. (Received January 28, 2016)