

Character varieties and representation theory - 2

Tuesday, 19 July 2022 14:30 (1 hour)

Given a finite group G , one can define two natural rings: the character ring of G and the center of the group algebra of G . When G is abelian, the two rings are isomorphic via a Fourier transform. In the non-abelian case such a Fourier transform does not exist. In this lecture I will discuss the case where G is the general linear group over a finite field. We will see how to make a bridge between these two rings through the geometry of character varieties (moduli space of local systems on punctured Riemann sphere), the moduli space of Higgs bundles or quiver varieties.

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