

GEOMETRY & PHYSICS

SEMINAR

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Serre polynomials of Character Varieties of free groups

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Abstract:

With G a complex reductive group, let Xr(G) denote the G-character varieties of free group Fr, of rank r. In this talk we shall present a result showing that the mixed Hodge structures on the cohomology groups of Xr(SLn) and Xr(PGLn), and on the compactly supported cohomology groups of the irreducible loci are isomorphic, for any $n,r \in N$. In particular, this implies their Serre (also called E-) polynomials coincide, settling the question raised by Lawton-Muñoz. This is based on joint work with Carlos Florentino and Alfonso Zamora.





