



Mathematics and CS Seminar

Elliptic characteristic classes of Schubert varieties and duality

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We modify the theory of Borisov and Libgober to define equivariant characteristic classes of Schubert varieties in the generalized flag varieties G/B . The resulting classes can be considered as functions depending on two sets of parameters: equivariant variables and Kaehler variables. There are two recursions which allow to compute inductively these classes: right recursion corresponding to geometric Demazure-Lusztig operation and left recursion induced by the R -matrix appearing in Yang-Baxter equation. When one passes from a group G to its Langlands' dual the recursions switch they roles. This allows to show that equivariant elliptic classes for Langlands dual groups coincide after a swap of equivariant variables with Kaehler variables. This duality is only on the numerical level. The geometric cause remains mysterious.

Thursday, December 9, 2021 02:00pm - 04:00pm

IST Austria Campus <https://mathseminars.org/seminar/AGNTISTA>



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