

The 7th East Asia Number Theory Conference

The determinant and the discriminant of a complete intersection of even dimension

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16:00 - 16:50

101, Mathematics Research Center Building (ori. New Math. Bldg.)

The determinant of the Galois action on the l -adic cohomology of the middle degree of a proper smooth variety of even dimension defines a quadratic character of the absolute Galois group of the base field.

In this talk, we show that for a complete intersection of even dimension in a projective space, the character is computed via the square root of the discriminant of the defining polynomials of the variety.



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