

Cycles with modulus, regulators and applications

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In this talk we will survey some recent results involving the so-called (higher) Chow groups with modulus for a pair (X, D) , where X is a smooth variety over a field k and D is a (possibly non reduced) effective Cartier divisor on X , generalizing Bloch-Esnault additive Chow groups studied by Rülling, Park and Krishna as well as the Chow groups of zero cycles with modulus introduced by Kerz and Saito. These groups are a modified version of Bloch's higher Chow groups and are related to several non A^1 -homotopy invariant objects.

This is a joint work with Shuji Saito.