

Fitting ideals of Iwasawa modules

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This is joint work with C. Greither. I will discuss on a refinement of classical Iwasawa main conjecture, giving the complete description of the Fitting ideals of several Iwasawa modules, such as the Galois group of the maximal S -ramified abelian pro- p extension of the cyclotomic \mathbb{Z}_p -extension of a totally real number field. I also plan to talk on the Fitting ideals of class groups of number fields.