Exposé court

26   *Kummer theory for number fields*

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Kummer theory is a classical theory about radical extensions of fields in the case where suitable roots of unity are present in the base field. Motivated by problems close to Artin's primitive root conjecture, we have investigated the group structure of cyclotomic-Kummer extensions of number fields. We present a paper that is joint work with Bryan Advocaat, Antigona Pajaziti, Flavio Perissinotto, and Antonella Perucca.