The Hasse norm principle for abelian extensions Christopher Frei, LMU München

Let L/K be a normal extension of number fields. The Hasse norm principle is a local-global principle for norms. It is satisfied if any element x of K is a norm from L whenever it is a norm locally at every place. For any fixed abelian Galois group G, we investigate the density of G-extensions violating the Hasse norm principle, when G-extensions are counted in order of their discriminant. This is joint work with Dan Loughran and Rachel Newton.