

BOSTON UNIVERSITY NUMBER THEORY SEMINAR

Statistics of the genus numbers of cubic fields

Amanda Tucker
University of Rochester

Monday, October 2 at 4:15 pm
111 Cummington Mall, MCS B21
Tea and cookies in MCS 144 at 4:00 pm

Abstract: The genus number of a number field is the degree of the maximal unramified extension of the number field that is obtained as a compositum of the field with an abelian extension of \mathbb{Q} . We will explain our recent proof that 96.23% of cubic fields have genus number one. This represents joint work with Kevin McGown.