Oberseminar Geometrie
Department of Mathematics
University of Fribourg
Physics 2.52
Wednesday November 25, 2020, 10:20

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On the field of definition of a hyperbolic Coxeter group

Every hyperbolic Coxeter group has a field of definition which is the field generated by all the cycles of its Gram matrix. This field is a commensurability invariant. In this talk, for quasi-arithmetic hyperbolic Coxeter groups, we discuss the possible fields that can arise and we present new sets of generators for the field of definition.