# Determining elements of minimal index in some infinite families of bicyclic biquadratic number fields

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In this talk we give two different methods for determining monogenity and elements of minimal index in some infinite parametric families of totally real bicyclic biquadratic number fields.

In some parametric families we reduced the problem to a system of Pellian equations.

Recently, in a joint work with István Gaál, we consider a similar type of family of number fields but we use a quite different technic, involving extensive formal and numerical calculations, as well. These arguments might be useful also in other families of number fields.