

THE ELLIPTIC GAMMA FUNCTION AND UNITS IN NUMBER FIELDS

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I will report on joint work with Nicolas Bergeron and Pierre Charollois. I will describe in detail our conjectural construction of units in abelian extensions of complex cubic fields using the elliptic gamma function. I will also explain some geometric aspects of the construction and their relevance to our generalisation of Kronecker's limit formula. The talk will complement Pierre Charollois's talk in this conference.