Sequences of knots and their limits

Pedro Lopes Departamento de Matemática Instituto Superior Técnico Av. Rovisco Pais 1049-001 Lisboa Portugal pelopes@math.ist.utl.pt

June 27, 2007

Abstract

In [1] we formalized the notion of limit of a sequence of knots with increasing crossing number. This was done using a knot invariant derived from the CJKLS invariant by dividing each component by the crossing number of the knot and taking the limit as the crossing number goes to infinity - inspired in the thermodynamic limit of statistical mechanics of exactly solved models.

In this talk we report on our curent research in this topic.

References

 P. Lopes, Hyperfinite knots via the CJKLS invariant in the thermodynamic limit, Chaos, Solitons and Fractals, 34 (2007), no. 5, 1450-1472