

Recent progress on Maxwell's conjecture

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Abstract

In 1954, J. C. Maxwell made an claim in his book, *A Treatise on Electricity and Magnetism*, that the total number of points of equilibrium (all assumed nondegenerated) of any configuration with l charges in R^3 never exceeds $(l - 1)^2$.

To this day, such problem is still open even for $l = 3$. In this talk, we will present some recent progress on this problem, called Maxwell's conjecture. Especially, we will focus on some results for $l = 4$.