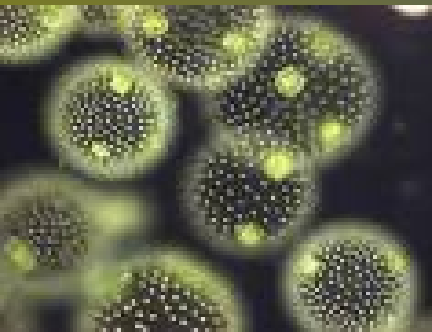


# Theory Seminar

Monday, January 28, 2008 2:10 PM 831 Pupin Hall

## Four-dimensional graphene and chiral fermions

Motivated by the description of the graphene electronic structure in terms of the relativistic Dirac equation, a generalization to four dimensions yields a strictly local fermion action describing two species and possessing an exact chiral symmetry. This is the minimum number of species required by the well known "no-go" theorems.



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