

MAFIA - seminář, který se neodmítá

Dirac operators in description of carbon nanostructures

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Abstract: I will briefly review how does Dirac Hamiltonian appear in description of low-energy quasi-particles in graphene. We shall discuss models twisted carbon nanotubes and fullerenes. I will show how the techniques of supersymmetric quantum mechanics can be used in construction of solvable models of these carbon nanostructures.