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for the generation of non-locally entangled electron pairs. Finally, using similar techniques the thesis analyzes the transport properties of carbon nanotube devices coupled with superconducting electrodes and in graphene superlattices.

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New study explains why superconductivity takes place in graphene. Graphene, a single sheet of carbon atoms, has many extreme electrical and mechanical properties. Two years ago, researchers showed how two sheets laid on top of each other and twisted at just the right angle can become superconducting, so that the material loses its electrical resistivity.

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Experimentally, previous attempts to induce superconductivity in monolayer graphene were limited to the proximity induced superconductivity 19 and in situ ARPES measurements on metal decorated graphene 20,21 which identified features attributed to dopant–related vibrational modes 20 and found signatures of heavy doping as well as the appearance of an IL band in Ca-intercalated graphene bilayer (no IL band could be seen for Li intercalation).

Superconductivity in Ca-doped graphene laminates

Furthermore it is shown that graphene-superconductor-graphene junctions can be used to favor the splitting of Cooper pairs for the generation of non-locally entangled electron pairs. Finally, using...

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