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by Subroto Mukerjee

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Graphene, a single sheet of carbon atoms, has many extreme electrical and mechanical properties. Two years ago, researchers showed how two

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sheets laid on top of each other and
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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 similar techniques the thesis analyzes the transport properties of carbon

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nanotube devices and coupled with
superconducting electrodes and in
graphene superlattices.

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New study explains why
superconductivity takes place in

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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

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Superhardmaterial
Superconductivity with Magic-Angle

Graphene. ... The double mono-layers
of carbon have captivated researchers
because, in contrast to cuprates, their

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induce superconductivity in monolayer
graphene were limited to the proximity
induced superconductivity 19 and in
situ ARPES measurements on metal

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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).

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Superconductivity in Ca-doped
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be used to favor the splitting of Cooper
pairs for the generation of non-locally
entangled electron pairs. Finally,

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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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