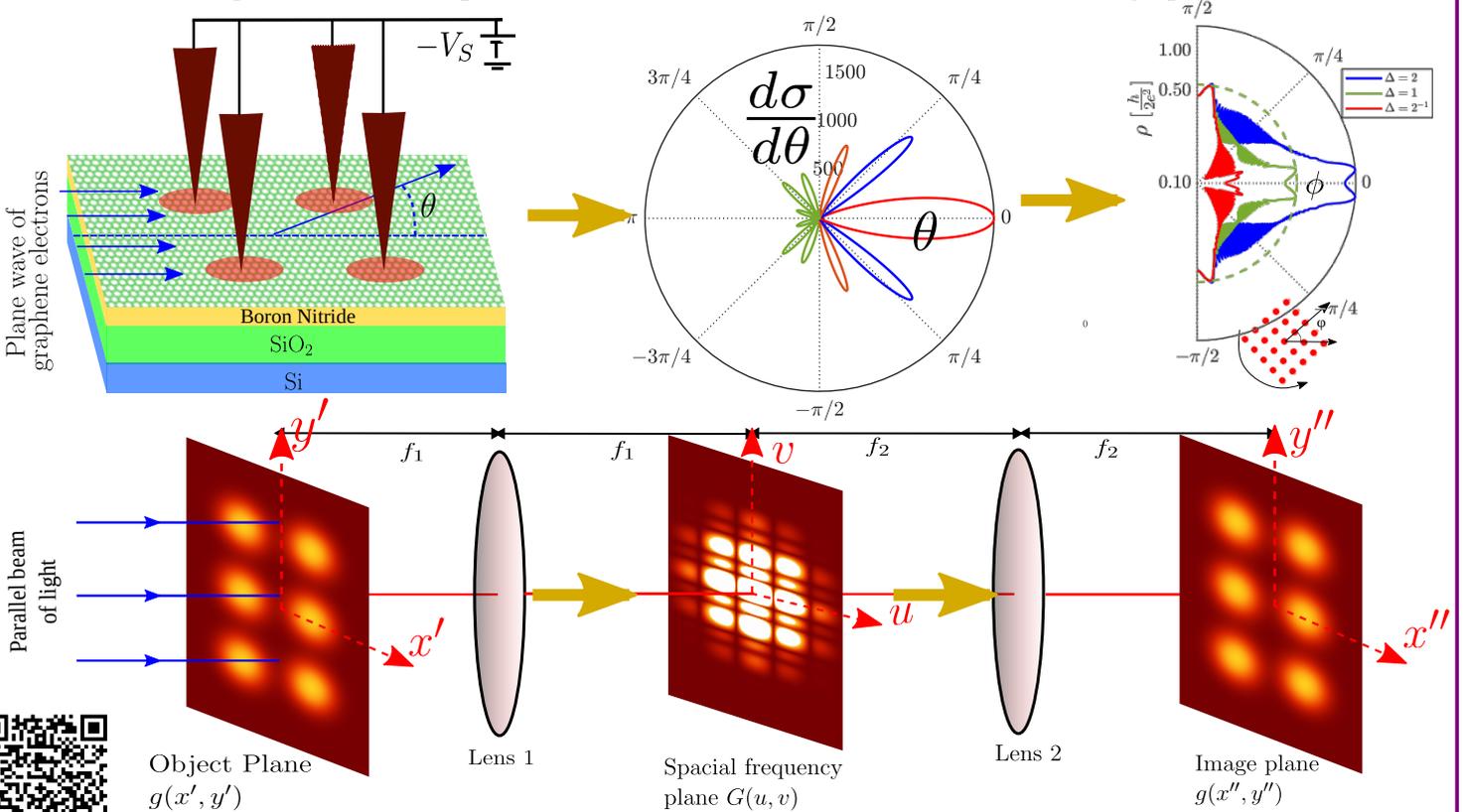


Scattering of massless Dirac fermions in modulated graphene junctions and its effect on electron transport

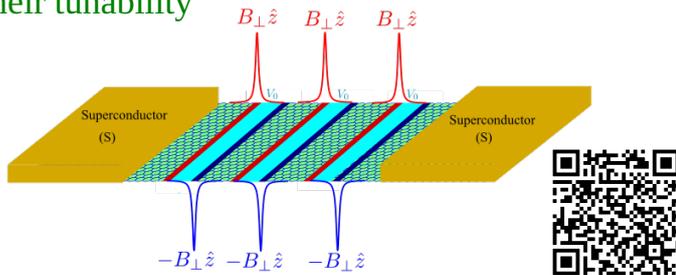
Partha Sarathi Banerjee

Electronic analogue of Fourier optics with massless Dirac Fermions scattered by quantum dot lattice

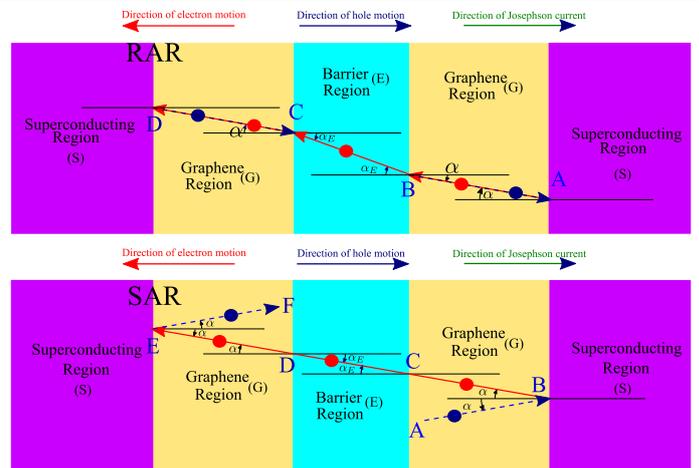


P. S. Banerjee, R. Marathe, S. Ghosh, 2024 J. Opt. 26 095602

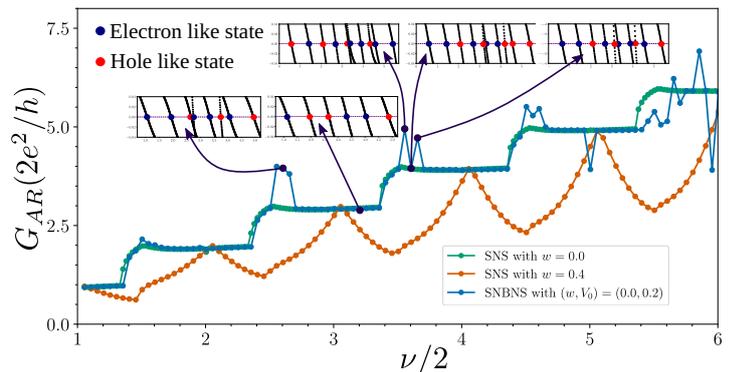
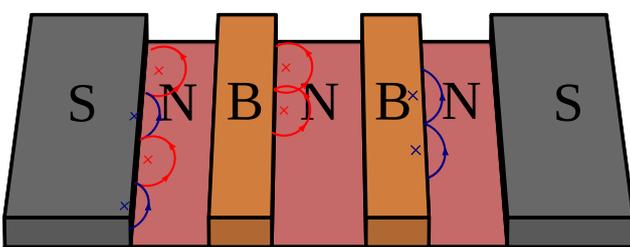
Magnetically modulated Superconductor-Graphene-Superconductor (SGS) Josephson junctions and their tunability



P. S. Banerjee, R. Marathe, S. Ghosh, 2025 Phys. Scr. 100 015965



Intermediate chiral edge states in quantum Hall Josephson junctions



P. S. Banerjee, R. Marathe, S. Ghosh, 2025, arXiv:2510.11432