Effect of disorder on electron tunneling in graphene layers through potential barriers VRINDA THAREJA, MANISH SHARMA, SANKALPA GHOSH, Indian Institute of Technology Delhi — Electrons at the fermi level in Graphene monolayer behave like massless Dirac fermions. Using a coherent potential approximation, we study the tunneling of such electrons through a double barrier potential in presence of disorder. We subsequently extend this study in the case of periodic lattice potentials. Our approach involves using the Green’s function calculation and is particularly amenable to studying the effect of disorder, impurities and defects on electron propagation through Graphene.