

# Strains and magnetic fields in suspended graphene

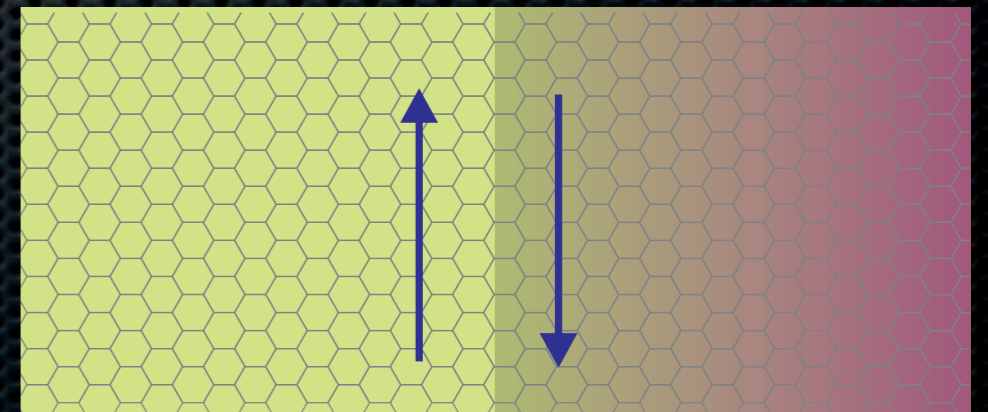
Gladys León

Elsa Prada

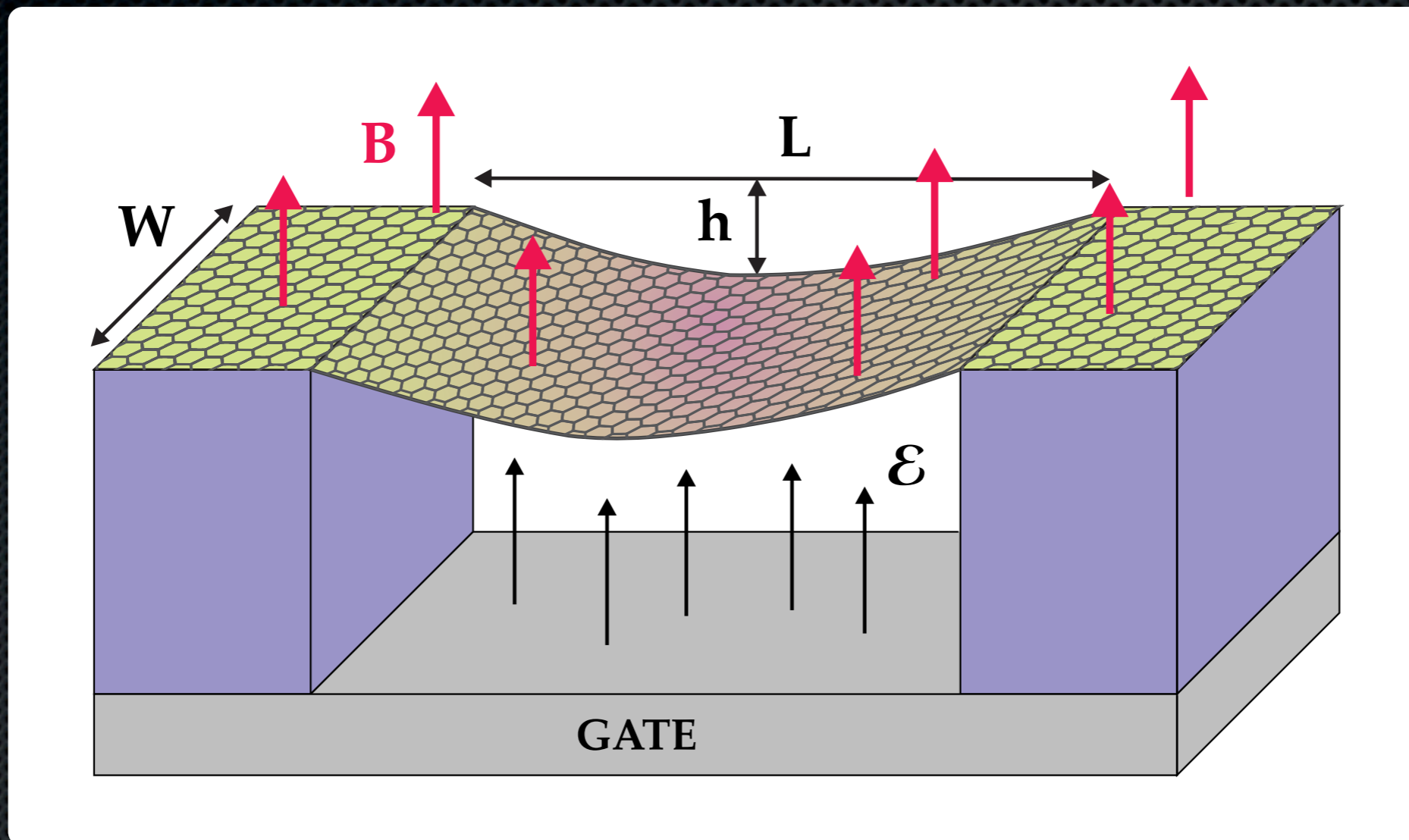
Pablo San-Jose

Francisco Guinea

Michael Fogler



# Suspended graphene

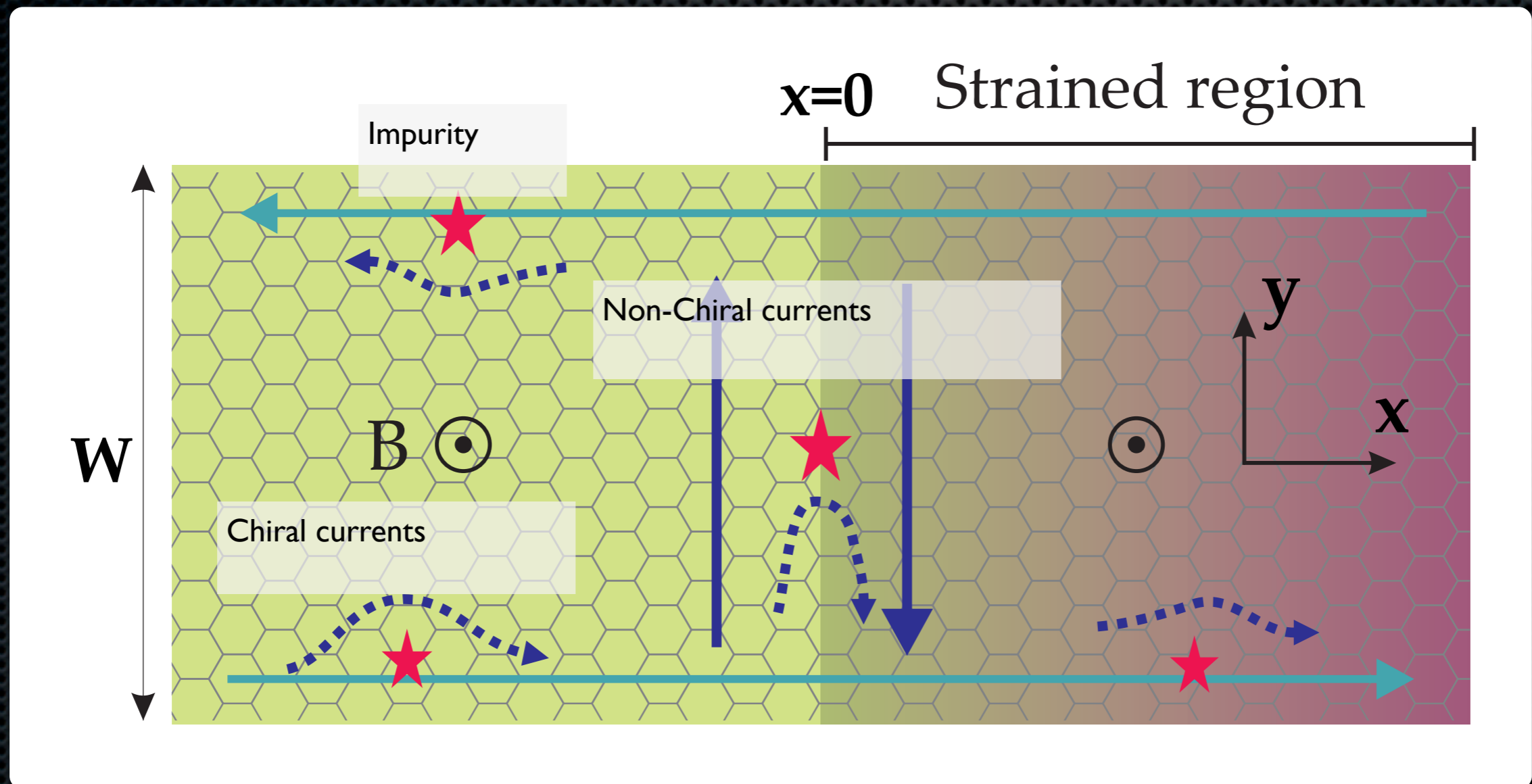


Strain described by a pseudomagnetic vector potential  $\mathbf{A}$

$$A \sim \beta u/a$$

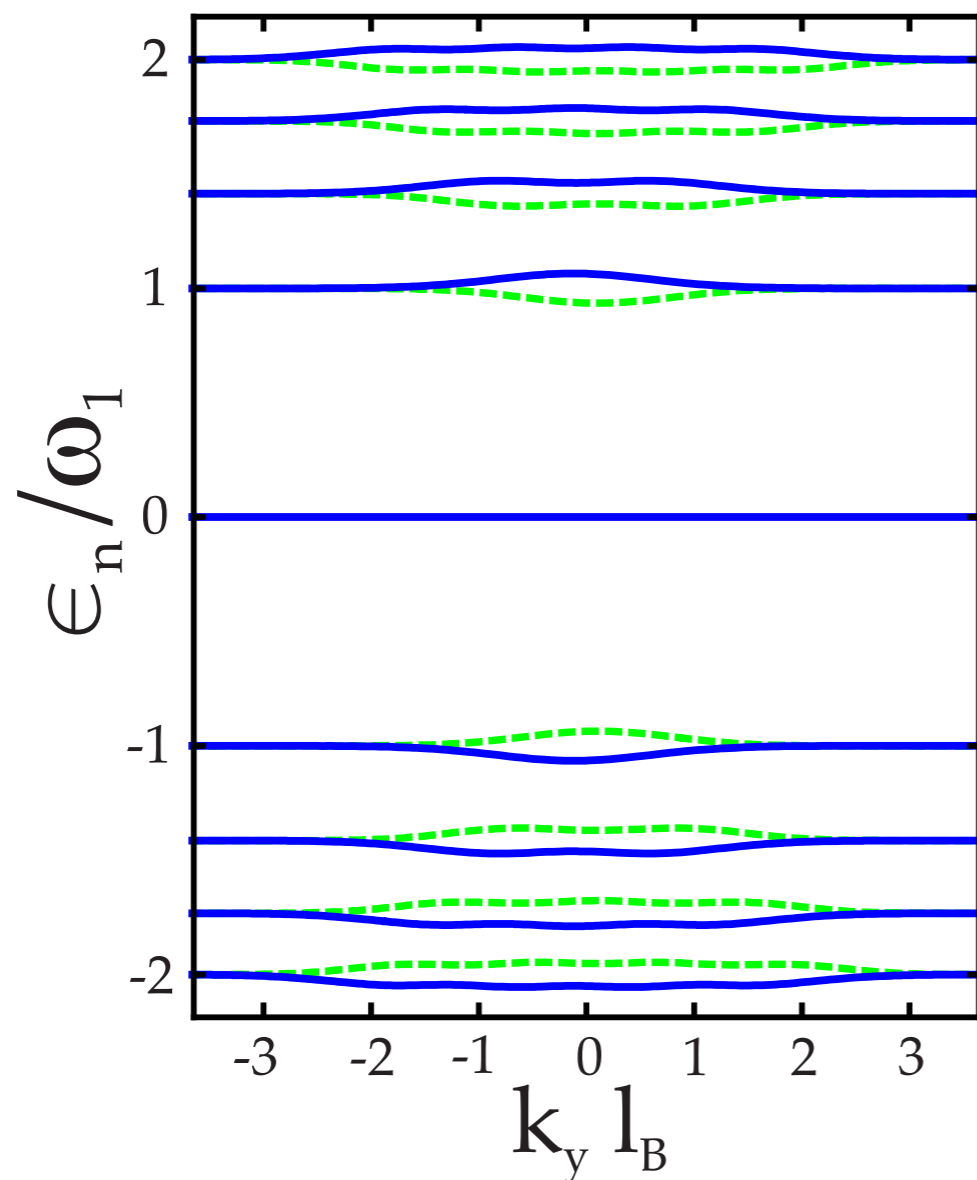
$$\beta = -\partial \log(t)/\partial \log(a) \approx 2 - 3$$

# Quantum Hall effect under strain



# Dispersive Landau levels

$$A_y^{\text{str}} l_B = 0.23$$



$$A_y^{\text{str}} l_B = 1$$

