





UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONA**TECH**

Barcelona Analysis Seminar

Date: Tuesday May 20, 2025Time: 15:00 CETRoom: UB iA (Universitat de Barcelona)

Magnetic Dirac Operator in Strips Subjected to Strong Magnetic Fields

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We consider the magnetic Dirac operator on a curved strip whose boundary carries the infinite mass boundary condition. When the magnetic field is large, we provide the reader with accurate estimates of the essential and discrete spectra. In particular, we give sufficient conditions ensuring that the discrete spectrum is non-empty. This is a joint work with Julien Royer from Toulouse III University and Nicolas Raymond from Angers University.

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