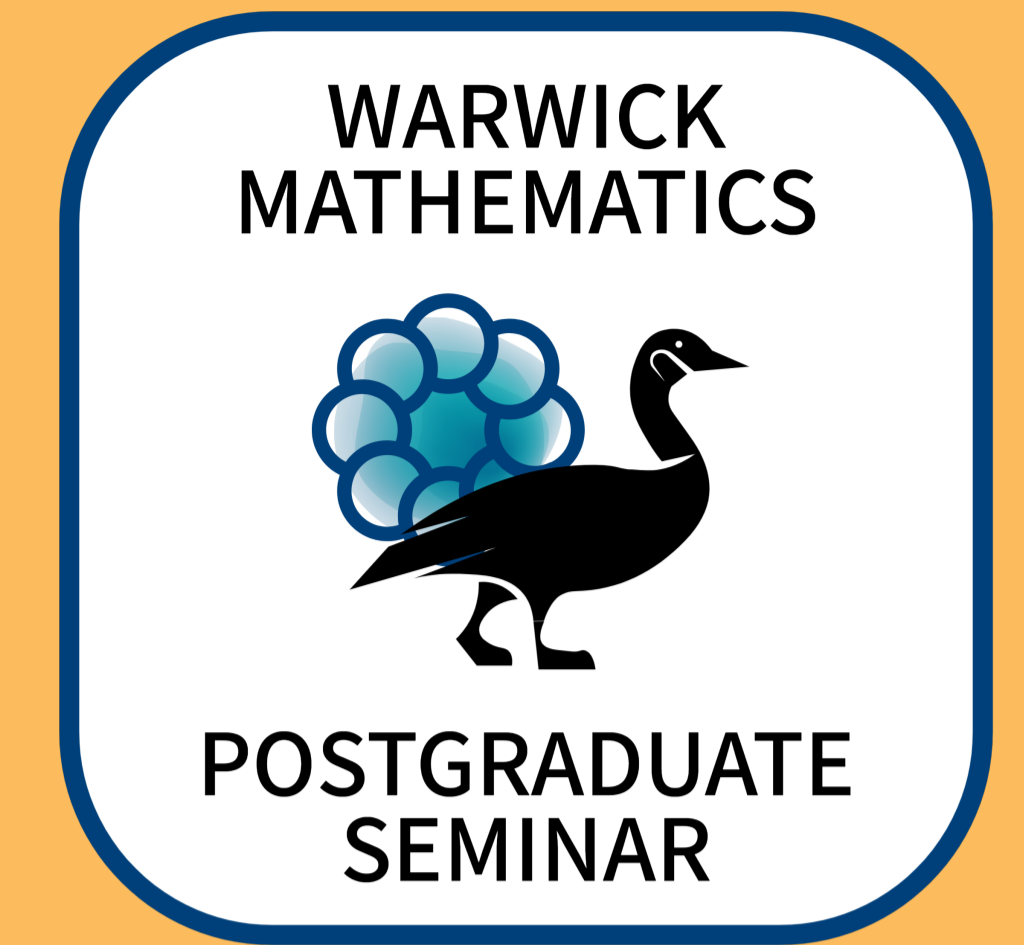


Exact couples and nilpotent spaces

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Week 7 - Term 1



Abstract

We will introduce spectral sequences via exact couples and outline how to derive the Serre spectral sequence from algebraic topology. Then, we will introduce nilpotent spaces, which are a type of space in many ways dual to a CW complex, before explaining how the Serre spectral sequence can be used to derive some of their properties.

For example, the homology groups of a nilpotent space are finitely generated if and only if its homotopy groups are finitely generated.

Time

12 pm, 16th
November 2022

Location

Room B3.02

Organisers

Alvaro Gonzalez Hernandez
Katerina Santicola