HONOURS SEMINAR

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Homology and homological algebra applications

Supervised by Don Stanley

April 22, 2016
2:30 pm
Math Lounge, CW 307.14

Abstract:

I will give a quick introduction to homology, homological algebra, and some topics in homotopy theory. I will then use the concepts introduced to prove the Borsuk-Ulam theorem in any dimension. Using this theorem in two dimensions allows us to show that, under some assumptions, at any given moment there exist two opposite points on the Earth's surface with the same temperature and barometric pressure!

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Mathematics and Statistics