Hamilton Institute Student Seminar Series

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**Title:** The Multiple Faces of Entropy

**Abstract:** Entropy is a transdisciplinary concept. Indeed, it seems to naturally appear in a variety of different fields: pure maths, theoretical computer science, statistics, machine learning, finance, physics, chemistry, molecular biology etc...

In this talk, we present the main frameworks which define entropy: Shannon’s entropy (information theory) and Clausius entropy (thermodynamics). Our aim is to develop an intuition about these frameworks and to highlight some of their applications in the various fields we mentioned.

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