

## Séminaire de Prof. Dr. John Gregg Oxford University

Thursday March 17th 2022 at 10h30  
Salle Patrick Alnot (4-A014)

### The magnon coming of age



The Spin Wave - whose quantum is the Magnon - celebrated its 75th birthday last year: yet until comparatively frequently it has remained a relatively under-explored area of physics. The development that has seen a surge of magnonic science in the past decade is the ready availability of fast microwave electronics and associated technologies that allow magnonic systems to be characterised and measured and that have thrown a spotlight on their very unusual and intriguing properties. The seminar will discuss the historic origins of spin wave physics; will address the basic energetics that give rise to spin waves; then will examine some of the peculiar properties associated with film magnonics and show examples of unusual physical phenomena that they enable; and finally it will explore some of the potential of magnonics for solving contemporary issues in information technology.

Séminaire organisé dans le cadre du projet **IMPACT Nanomaterials for Sensors (N4S)**

