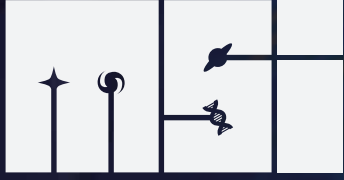


Institut Spatial de McGill



McGill Space Institute

# Seminar Series

## Blake Sherwin

University of California, Berkeley

### CMB Lensing:

*Fundamental Physics from Maps  
of the Invisible*

Dark matter not only forms an invisible cosmic scaffolding within which galaxies form, its distribution in the universe also contains a wealth of information about fundamental physics. Measurements of gravitational lensing in the cosmic microwave background (CMB) allow this matter distribution to be directly seen and mapped. In my talk, I will describe the rapid advance of CMB lensing measurements from first detections, to current work, to ultra-high-precision cosmology in the near future. I will explain how upcoming CMB lensing measurements will allow us to determine the masses of neutrinos and probe the properties of inflation and the very early universe.

25 Oct. 3:30 pm

MSI conference room, 3550 University

*Refreshments following the seminar in the MSI lounge*

For more information: [msi.mcgill.ca/Seminars.htm](http://msi.mcgill.ca/Seminars.htm)