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## **The Universe as a Physics Lab: Recent results in Cosmology and Survey of Near-term Canadian Projects**

*Thursday 19 June 2014 08:45 (30 minutes)*

In this talk I will survey recent results in cosmology, with a focus on Canadian contributions. This will include results derived from observations of the cosmic microwave background radiation, galaxy clusters, galaxies, and 21cm diffuse emission. In many cases, the results have deep overlap with particle physics such as probes of inflation, measurements of neutrino mass, and observations of dark matter. As an instrument-builder, I will also introduce the technology that has led to recent break-throughs, and what can be expected in the near-term.

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