



# THE ASTRONOMY RESEARCH CENTRE

## ARC SEMINAR

**Dr. Simon Blouin, Banting Fellow,  
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**“Not so simple after all: White dwarf evolution in  
the era of Gaia”**

### Abstract

White dwarf evolution is often described as a simple cooling process that naturally provides accurate age determinations. In reality, fundamental aspects of white dwarf cooling remain poorly understood. The extent of current uncertainties has been clearly demonstrated by Gaia DR2, which revealed that some white dwarfs undergo multi-Gyr cooling delays not predicted by current cooling models. In this talk, I will present my recent theoretical work aimed at improving the constitutive physics of white dwarf cooling models and discuss outstanding uncertainties that need to be addressed before white dwarf cosmochronology can reach its full potential.

Join us to watch the virtual seminar  
using the zoom link below

<https://uvic.zoom.us/j/89790011934>