

Program of Winter School on *Remote Sensing of Exoplanets*

Time	Thursday, December 4th	Friday, December 5th
9:00- 9:10 am	Welcome remarks Adriana Predoi-Cross University of Lethbridge	<i>ExoMol: New molecular line lists for exoplanets and other hot atmosphere</i> Sergey Yurchenko University College London, London, UK
9:10-10:15 am	<i>The search for habitable Planets</i> Georg Mellau Justus Liebig University, Giessen, Germany and MIT, USA	
10:15-10:45 am	Coffee break	Coffee break
10:45 am-12 pm	<i>Spectroscopy for Cool Astronomical Objects</i> Peter Bernath Old Dominion University, Norfolk, Virginia, USA (WebEx lecture)	<i>An Introduction to Atmospheric Retrieval: Applications to Exoplanets and Brown Dwarfs</i> Michael Line University of California, Santa Cruz, USA (WebEx lecture)
12-1 pm	Lunch break	Lunch break
1-2 pm	<i>An introduction to exoplanetary detection</i> Ingo Waldmann University College London, London, UK	<i>Data analysis of exoplanetary atmospheres: Working at the limits of instrument sensitivity</i> Ingo Waldmann University College London, UK
2-3 pm	<i>Calculating molecular opacities for exoplanetary atmospheres from first principles</i> Sergey Yurchenko University College London, London, UK	<i>Emission spectra of hot small molecules</i> Georg Mellau Justus Liebig University, Giessen, Germany and MIT, USA
3-3:30 pm	Coffee break	Coffee break
3:30-4:30 pm	<i>Direct Imaging of Extrasolar Planets: Bulk Properties via Disk-Averaged Multi-Spectral Images</i> Katie Morzinski Steward Observatory, University of Arizona, USA (WebEx lecture)	<i>The Far-Infrared Astrophysical roadmap: key science and technology development for the next generation of space-based far-infrared astrophysics experiments</i> Locke Spencer University of Lethbridge