	Wednesday June 12		Thursday June 13		Friday June 14	
8:30 - 9 AM	Coffee & danish		Coffee & danish		Coffee & danish	
9 AM - Noon (Coffee break 10:20-10:40 AM)	Stellar formation		Stellar evolution		Massive stars and stellar winds	
	Topics	Instructor	Topics	Instructor	Topics	Instructor
	 Fluid instabilities as the origin of gas fragmentation and collapse Hydrostatic cores The Core Mass Function and the stellar Initial Mass Function: is there a relation? Turbulence in the ISM The origin of the mass of stars The late time evolution of proto-stellar objects Open questions in star formation theory 	Romain Teyssier (U. Zürich)	 What is a star ? The HR diagram and parameters that determine how a star evolves Equations of stellar structure: hydrostatic balance, energy transport, nuclear burning, stellar evolution timescales Introduction to the MESA code Basic ideas in stellar evolution: central density/temperature diagram and mapping to the HR diagram; core vs shell burning and giants Using MESA to run a 1 solar mass model from PMS to white dwarf 	Andrew Cumming (McGill)	 Massive stars - The massive stars zoo; evolution in the upper HR diagram; extra-galactic massive stars; starbursts; population III stars Stellar Winds - Observational signatures; isothermal winds; line driven winds; dust driven winds 	Laurent Drissen (U. Laval) & Nicole St-Louis (UdeM)
Noon - 1:30 PM	Lunch		Lunch		Lunch	
1:30 - 4:30 PM (Coffee break 3:00 - 3:20 PM)	Bottom of the main sequence		From solar to stellar astrophysics		Stellar death	
	Topics	Instructor	Topics	Instructor	Topics	Instructor
	 Solar neighborhood Young associations and stellar dynamics Very low-mass stars Brown dwarfs 	Jonathan Gagné (UdeM)	 The sun as a star Corona and wind Magnetism and dynamo Activity cycle, eruptive events, and radiative 	Paul Charbonneau (UdeM)	 White dwarfs - Basic properties; white dwarf atmospheres; the cooling problem; spectral evolution Neutron stars - Core-collapse Supernovae; TOV equation and equation of state; pulsars; binary neutron star mergers and their GWs Black holes - Early history; the Schwarzschild solution; basic properties and implications; how 	Pierre Bergeron (UdeM), Vanessa Graber (McGill) &