

## MPU SEMINAR SERIES : 2016-2017

### Fall 2016

- September 02 : Charles-Antoine Collins-Fekete** (CHUQ / Univ Laval / Harvard-MGH)  
*From Fermi diffusion equation to hadron imaging: Applications to proton therapy*
- September 09 : Kevin Alexander** (Queen's University, Kingston, Ontario)  
*Clinical implementation of film & gel dosimetry*
- September 18 : Avishek Chatterjee** (University of Geneva, Geneva, Switzerland)  
*Searching for new physics using the ATLAS detector at the Large Hadron Collider*
- October 21 : Richard Richardson** (Canadian Nuclear Laboratories, Deep River, ON)  
*Mitochondrial stress controls the radiosensitivity of the oxygen effect:  
Implications for radiotherapy*
- October 28 : Angelica Perez-Andujar** (University of California-San Francisco, San Francisco, CA)  
*Advances in stereotactic treatments of multiple brain metastases*
- November 04 : Louis-Martin Rousseau & Mehdi Mahnam** (École Polytechnique, Montréal, QC)  
*A column-and-row generation heuristic to Volumetric-modulated Arc Therapy (VMAT)  
treatment planning problem*
- November 25 : Juliette Selb** (Biomedical Imaging, Massachusetts General Hospital, Boston, MA)  
*Diffuse optical imaging of the brain: Applications to functional imaging and  
clinical neuro-monitoring*
- December 16 : James Coates** (Oncology, University of Oxford, Oxford, England)  
*The anti-malarial drug atovaquone alleviates tumor hypoxia and improves  
radiosensitivity "in vivo"*
- December 16 : Ivan Buzurovic** (Harvard Medical School, Boston, MA)  
*Redefinition of treatment planning in brachytherapy procedures*
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### Winter 201