

**AUTOMNE/FALL 2018    Lundi 10 décembre 2018 / Monday December 10<sup>th</sup>, 2018**  
**AM - Advanced Research Complex (ARC) 233    PM- Fauteux Hall (FTX) 133**  
**Université d'Ottawa / University of Ottawa**

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|--------------|---|
| 9:00         | Collin Tiesen (Ph.D., U. Ottawa)<br><i>Accelerator mass spectrometry of beryllium in rainwater</i>  |
| 9:20         | Jacob Watkins (M.Sc., Carleton U.)<br><i>Reducing background in EXO to improve limits on half-life sensitivity: high voltage, Ba tagging, machine learning</i>  |
| 9:40         | Daixi (Daisy) Zia (M.Sc., U. Ottawa)<br><i>Detailed balance modeling of multijunction phototransducers</i>  |
| 10:00        | Michael Nesrallah (Ph.D., U. Ottawa)<br><i>Kerr instability amplification: classical and quantum theories</i>   |
| <b>10:20</b> | <b>Break with refreshments / Pause avec rafraîchissements</b>   |
| 10:50        | Alicia Sit (M.Sc., U. Ottawa)<br><i>Quantum cryptography through different quantum channels in realistic conditions.</i>  |
| 11:10        | Mathew Britton (Ph.D., U. Ottawa)<br><i>Air lasing in the nitrogen molecular ion</i>  |
| 11:30        | Martin Charron (M.Sc., U. Ottawa) <i>Optimizing dsDNA concentration determination using controlled counting and solid-state nanopores</i>                       |
| 11:50        | Nicholas Majtenyi (Ph.D., Carleton) <i>A novel arterial input function measurement technique for dynamic contrast-enhanced MRI</i>                              |
| <b>12:10</b> | <b>Lunch break / Pause de midi – Free time / Temps libre</b>  |
| 2:00         | Alexandre Poulin (Ph.D., Carleton)<br><i>Modification to the standard freeze-out scenario</i>   |
| 2:20         | Neo Nguiya Passi (M.Sc., U. Ottawa)<br><i>Modélisation de la diffusion dans des environnements contenant des obstacles</i>                                      |
| 2:40         | Dylan Pizzi (M.Sc., Carleton)<br><i>Gas detector simulations</i>  |
| 3:00         | Hourieh Exir (M.Sc., U. Ottawa) <i>Improving osseointegration of orthopaedic and dental implants with femtosecond laser induced periodic surface structures</i> |
| 3:40         | Jeremiah David O'Neil (M.Sc., U. Ottawa)<br><i>Computational analysis of light-matter interaction</i>   |

**Morning/Matin - Advanced Research Complex (ARC) 233**  
**Après-midi/Afternoon - Fauteux Hall (FTX) 133**

See map at <http://www.uottawa.ca/maps/> . Voir la carte à <http://www.uottawa.ca/cartes/> .