

2021 CAP MEDAL RECIPIENTS / LAURÉATS DES MÉDAILLES DE L'ACP DE 2021

The CAP is very pleased to recognize its 2021 medal recipients. Please visit the website below for the list of medal recipients with a link to the detailed citations and any remarks submitted by the recipient following the receipt of the award.

<https://www.cap.ca/programs/medals-and-awards/>

L'ACP est très heureuse de reconnaître ses récipiendaires de médailles 2021. Veuillez consulter le site web ci-dessous pour obtenir la liste des récipiendaires de médailles, ainsi qu'un lien vers les citations détaillées et les remarques à la suite de la réception de la récompense.

<https://www.cap.ca/fr/activites/medailles-bourses>

CAP-COMP Peter Kirkby Memorial Medal for Outstanding Service to Canadian Physics / La Médaille commémorative Peter Kirkby de l'ACP-OCPM pour services exceptionnels à la physique au Canada



HENRY VAN DRIEL, University of Toronto

to recognize his outstanding service to the Canadian physics community over a period of more than forty-five years, which has included international efforts, great service to the CAP, work with NSERC on behalf of Canadian physics, and editorial service to distinguished journals in North America.

CAP-CRM Prize in Theoretical and Mathematical Physics / Le Prix ACP-CRM de physique théorique et mathématique



ROBERT RAUSSENDORF, University of British Columbia

to recognize his eminent contributions to the theory of quantum computing, including groundbreaking work on measurement-based or "one way" quantum computing, fault-tolerant quantum computing, and computationally universal quantum phases of matter.

CAP-TRIUMF Vogt Medal for Contributions to Subatomic Physics / Médaille Vogt de l'ACP-TRIUMF pour contributions en physique subatomique



SANGYONG JEON, McGill University

to recognize his contributions to the theory of relativistic heavy-ion collisions and of the resulting quark-gluon plasma.

CAP-DCMMP Brockhouse Medal / Médaille de l'ACP-DPMCM Brockhouse



ROGER MELKO, University of Waterloo / Perimeter Institute

to recognize his work on the theoretical understanding of many-body quantum systems through large-scale computer simulations. The theoretical tools developed by Dr. Melko's group provide a new perspective on understanding of quantum condensed matter and have proven highly influential in areas such as quantum information, field theory, cold atomic matter, and artificial intelligence.

CAP Medal for Excellence in Teaching Undergraduate Physics / Médaille de l'ACP pour l'excellence en enseignement de la physique au premier cycle



RICHARD JAMES EPP, University of Waterloo

to recognize his accomplishments in teaching and commitment to physics outreach. He consistently receives high teaching evaluations from majors and non-majors alike, and students commended his "Thinking Like a Physicist" series that replaced informal interactions during the pandemic lockdown.

CAP Medal for Outstanding Achievement in Industrial and Applied Physics / La Médaille de l'ACP pour des réalisations exceptionnelles en physique industrielle et appliquée



VINCENT TABARD-COSSA, University of Ottawa

to recognize his innovative contribution to Physics by developing a new nanopore fabrication technique. Nanopores can electrically detect individual molecules like DNA and proteins and are finding applications in next generation diagnostics, sequencing, and data storage devices. Dr. Tabard-Cossa's ground-breaking controlled breakdown method of nanopore fabrication simplifies and replaces a previously cumbersome and expensive process, enabling scalable, low-cost fabrication of solid-state nanopores at sub-nanometer scale.

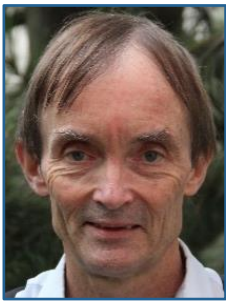
CAP Herzberg Medal / Médaille de l'ACP Herzberg



SIMON CARON-HUOT, McGill University

to recognize his creation and development of nonperturbative techniques in conformal field theory, thereby opening the way to broad-ranging applications from particle physics to condensed matter physics

CAP Medal for Lifetime Achievement in Physics / Médaille de l'ACP pour contributions exceptionnelles à la physique



ROBERT BRANDENBERGER, McGill University

to recognize his coupling of ground-breaking developments in theoretical cosmology with recent dramatic advances in observational astronomy of the early universe.