

Session Program

6-11 Jun 2021



**Canadian Association
of Physicists**

**Association canadienne
des physiciens et physiciennes**

2021 CAP Virtual Congress / Congrès virtuel de l'ACP 2021

TS-3 Plasma Physics Symposium (DPP) / Symposium de physique des plasmas (DPP)

Underline Conference System

Tuesday 8 June

10:30

TS-3 Plasma Physics Symposium (DPP) / Symposium de physique des plasmas (DPP)

Session | Location: Underline Conference System | Convener: Lenaic Couedel

10:40-11:05

(I) Modelling laser plasma interaction for inertial confinement fusion experiments

Speaker

Arnaud Debayle

11:05-11:30

(I) X-ray production using relativistically intense laser pulses

Speaker

Amina Hussein

11:30-11:45

(G*) Generation of focused LWFA electron and gamma beams using a triplet quadrupole magnet system

Speaker

Mr Vigneshvar Senthilkumaran

11:45-12:00

Nonlinear development of absolute SRS in ignition-scale direct-drive coronal plasmas

Speaker

Dr Qing Wang

12:00-12:15

Ray tracing analysis of stimulated Raman scattering in directly-driven inertial confinement fusion plasmas

Speaker

Steven Hironaka

12:15-12:30

Break

12:30-12:45

Spectrally accurate global-local gyrokinetic simulations of turbulence in tokamak plasmas

Speaker

Denis St-Onge

12:45-13:00

(G*) Experimental Studies of the Improved Plasma Confinement on the STOR-M Tokamak

Speaker

Mrs Heba Bsharat

13:00-13:15

(G*) Stimulated Excitation of Thermal Waves in Magnetized Plasmas and Use in Thermal Conductivity Measurement

Speaker

Scott Karbashewski

13:15-13:40 **(I) Nonlinear and noise effects in simulations of Buneman instability****Speaker**

Arash Tavassoli

13:40-13:50 **Break**13:50-14:15 **(I) Defect Engineering in Plasma-Treated Graphene Films****Speaker**

Luc Stafford

14:15-14:30

Boron substitutional doping of graphene by low- pressure diborane-argon plasma**Speaker**

Pierre Vinchon

14:30-14:45

(G*) P3I code: A new code for Plasma Immersion Ion Implantation modelling**Speaker**

tahreem yousaf

14:45-15:00

(G*) Time Resolved Characterization of a Plasma Immersion Ion Implantation System**Speaker**

Joel Moreno

15:00-15:10 **Break**

15:10-15:35

(I) Plasma and dusty plasma pattern formation at high magnetic fields**Speaker**

Edward Thomas

15:35-15:50

Mode-coupling instability of two-dimensional complex plasma crystals in asymmetric capacitively-coupled radio-frequency discharges**Speaker**

Lenaic Couedel

15:50-16:05

(G*) Application of kinetic and regression techniques to measurements made with fixed-bias needle Langmuir probes.**Speaker**

Guangdong Liu

16:05-16:20 **(G*) Design and Characterization of a Dust Injector for STOR-M****Speaker**

Nathan Nelson

16:20-16:35 **Beyond analytic inference techniques with multivariate regression**

Speaker

Richard Marchand

16:35-16:50

(G*) Multivariate Regression Approach in the Prediction of Side Wind Velocity Using Spherical Segmented Langmuir Probe Measurements

Speaker

Mr Akinola Olowookere

16:50-17:00

Break

17:00-17:25

(I) Flow-Through Z-Pinch Research at Fuse

Speaker

Dr Raymond Golingo

17:25-17:50

(I) Global simulations of ion temperature gradient modes, from characteristic eigen-structures to turbulent transport

Speaker

Jeffery Zielinski

17:50-18:05

Turbulence and transport from multiple entangled electron temperature filaments in a magnetized plasma

Speaker

Richard Sydora

18:05