



**ANNOUNCEMENT**  
**CAP BEST STUDENT PAPER COMPETITION**

**2019 DIVISION ORAL FINALISTS:**

Student Name and Affiliation (alphabetical order)	Title	Division
Alaa Al-Shaer	Atomic force microscopy reveals how structural variations impact the flexibility of collagen	DPMB
Kyle Bromma	Optimization of nanoparticle transport using monolayer and multilayer cell models	DPMB
Jack Davis	Dynamical tunnelling in the quantum kicked top	DTP
Etienne Dreyer	The search for exotic dilepton signatures in the full LHC Run-2 dataset collected with the ATLAS detector	PPD
Daniel Durnford	Measurement of the single electron response of Spherical Proportional Counters for the NEWS-G light dark matter search experiment	PPD
Lindsay Forestell	Cosmological Bounds on Non-Abelian Dark Forces	DTP
Erik Frieling	Quantum state dependent chemistry of ultra-cold $6\text{Li}_2$ dimers	DAMOPC
Fatima H. Garcia	Spectroscopic studies of the structure of neutron-rich isotopes $^{129}\text{Sn}$ and $^{133}\text{Sn}$	DNP
Melanie Gascoine	Development of multi-detector systems for radiation measurements at Simon Fraser University	DNP
Michael Gennari	Nuclear kinetic density from ab initio theory	DNP
Sean Graham	Stable longitudinal spin domains in a nondegenerate ultracold gas	DAMOPC
Clarke Hardy	Determination of the Physics Reach of the PICO-40L and PICO-500 Bubble Chamber Dark Matter Detectors	PPD
Andrew MacLean	Structure of $^{188}\text{Hg}$ From Gamma-ray Spectroscopy With GRIFFIN	DNP
Carlotta Porzio	Configuration mixing investigation in germanium isotopes through measurement of $E0$ transition strengths	DNP
Alicia Sit	Quantum cryptography in realistic conditions with structured photons	DAMOPC
Austin de St. Croix	Analog Electronics and SiPM Characterization for LOLX	DAPI/DPP
Marie Vidal	Ionization yield measurements for NEWS-G	DAPI/DPP
tba	tba	DCMMP
tba	tba	DCMMP
tba	tba	DCMMP