
A newsletter celebrating student success around PHAS!

# Publications

from PHAS students who were first or second author

**Lingyue Sun**, "Variation in inter-institutional plan quality when adopting a hypofractionated protocol for prostate cancer external beam radiation therapy", International Journal of Radiation Oncology, Biology, Physics, June 2020

**Aaron Barclay**, "Spectra of CO2–N2 dimer in the 4.2 μ m region: Symmetry breaking of the intramolecular CO2 bend, the intermolecular bend, and higher K-values for the fundamental", The Journal of Chemical Physics, July 2020

**Faezeh Kimiaee Asadi, Stephen Wein,** "Cavity-assisted controlled phase-flip gates", Physical Review A, July 2020

**Faezeh Kimiaee Asadi, Stephen Wein,** "Protocols for long-distance quantum communication with single 167Er ions", Quantum Science and Technology, September 2020

**Stephen Wein, Jia-Wei Ji, Yu-Feng Wu, Faezeh Kimiaee Asadi,** "Analyzing photon-count heralded entanglement generation between solid-state spin qubits by decomposing the master-equation dynamics", Physical Review A, September 2020

**Devin Van Elburg**, "Dosimetry of a sonolucent material for an ultrasound-compatible gynecologic high-dose-rate brachytherapy cylinder using Monte Carlo simulation and radiochromic film" Brachytherapy, October 2020

# Defences and Candidacies

**Hamid Kaviani,** PhD Defence

**Faezeh Kimiaee Asadi,** PhD Defence

**Sourabh Kumar,** PhD Defence

**Anna Ordog,** PhD Defence

**Sarah Weppler,** PhD Defence

**Bipinmeet Chawla,** MSc Defence

**Murali Krishna Kurmapu,** MSc Defence

**Carlton-James Osakwe,** MSc Defence

**Yufeng Wu,** MSc Defence

**Davor Curic,** Candidacy

**Salini Karuvade,** Candidacy

**Nehad Mabrouk,** Candidacy

**Gaurav Saxena,** Candidacy

**Prasoon Kumar Shandilya,** Candidacy

**Lingyue Sun,** Candidacy

**Devin Van Elburg,** Candidacy

## Please let the DGA know about your and your group's future successes!

Pictures, from left to right: STEVE, an aurora-like phenomenon, taken by Neil Zeller; PHAS holiday party 2019; Superconducting nano-wire single-photon detectors, courtesy of Dr Daniel Oblak