

## James Allen

Ph.D. Student in Physics, admitted Autumn 2012

### Publications

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#### PUBLICATIONS

- **Measurement of Transverse Wakefields Induced by a Misaligned Positron Bunch in a Hollow Channel Plasma Accelerator** *PHYSICAL REVIEW LETTERS*  
Lindstrom, C. A., Adli, E., Allen, J. M., An, W., Beekman, C., Clarke, C. I., Clayton, C. E., Corde, S., Doche, A., Frederico, J., Gessner, S. J., Green, S. Z., Hogan, et al  
2018; 120 (12): 124802
- **Acceleration of a trailing positron bunch in a plasma wakefield accelerator** *SCIENTIFIC REPORTS*  
Doche, A., Beekman, C., Corde, S., Allen, J. M., Clarke, C. I., Frederico, J., Gessner, S. J., Green, S. Z., Hogan, M. J., O'Shea, B., Yakimenko, V., An, W., Clayton, et al  
2017; 7: 14180
- **Long-range attraction of an ultrarelativistic electron beam by a column of neutral plasma** *NEW JOURNAL OF PHYSICS*  
Adli, E., Lindstrom, C. A., Allen, J., Clarke, C. I., Frederico, J., Gessner, S. J., Green, S. Z., Hogan, M. J., Litos, M. D., O'Shea, B., Yakimenko, V., An, W., Clayton, et al  
2016; 18
- **Staging optics considerations for a plasma wakefield acceleration linear collider** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*  
Lindstrom, C. A., Adli, E., Allen, J. M., Delahaye, J. P., Hogan, M. J., Joshi, C., Muggli, P., Raubenheimer, T. O., Yakimenko, V.  
2016; 829: 224-228
- **Transverse oscillations in plasma wakefield experiments at FACET**  
Adli, E., Lindstrom, C. A., Allen, J., Clarke, C. I., Frederico, J., Gessner, S. J., Green, S. Z., Hogan, M. J., Litos, M. D., White, G. R., Yakimenko, V., An, W., Clayton, et al  
ELSEVIER SCIENCE BV.2016: 94–98
- **Self-mapping the longitudinal field structure of a nonlinear plasma accelerator cavity** *NATURE COMMUNICATIONS*  
Clayton, C. E., Adli, E., Allen, J., An, W., Clarke, C. I., Corde, S., Frederico, J., Gessner, S., Green, S. Z., Hogan, M. J., Joshi, C., Litos, M., Lu, et al  
2016; 7: 12483
- **Demonstration of a positron beam-driven hollow channel plasma wakefield accelerator** *NATURE COMMUNICATIONS*  
Gessner, S., Adli, E., Allen, J. M., An, W., Clarke, C. I., Clayton, C. E., Corde, S., Delahaye, J. P., Frederico, J., Green, S. Z., Hast, C., Hogan, M. J., Joshi, et al  
2016; 7
- **High-field plasma acceleration in a high-ionization-potential gas** *NATURE COMMUNICATIONS*  
Corde, S., Adli, E., Allen, J. M., An, W., Clarke, C. I., Clausse, B., Clayton, C. E., Delahaye, J. P., Frederico, J., Gessner, S., Green, S. Z., Hogan, M. J., Joshi, et al  
2016; 7: 11898
- **9 GeV energy gain in a beam-driven plasma wakefield accelerator** *PLASMA PHYSICS AND CONTROLLED FUSION*  
Litos, M., Adli, E., Allen, J. M., An, W., Clarke, C. I., Corde, S., Clayton, C. E., FREDERICO, J., Gessner, S. J., Green, S. Z., Hogan, M. J., Joshi, C., Lu, et al  
2016; 58 (3)
- **Evidence for high-energy and low-emittance electron beams using ionization injection of charge in a plasma wakefield accelerator**  
Vafaei-Najafabadi, N., An, W., Clayton, C. E., Joshi, C., Marsh, K. A., Mori, W. B., Welch, E. C., Lu, W., Adli, E., Allen, J., Clarke, C. I., Corde, S., Frederico, et al  
IOP PUBLISHING LTD.2016

- **Optical Characterization of Beam-Driven Plasma Wake Field Accelerators**

Zgadaj, R., Li, Z., Downer, M. C., Gessner, S., Corde, S., Litos, M., Clarke, C., Schmeltz, M., Allen, J., Green, S., Hogan, M., Yakimenko, V., Hogan, et al  
AMER INST PHYSICS.2016

- **Multi-gigaelectronvolt acceleration of positrons in a self-loaded plasma wakefield** *NATURE*

Corde, S., Adli, E., Allen, J. M., An, W., Clarke, C. I., Clayton, C. E., Delahaye, J. P., FREDERICO, J., Gessner, S., Green, S. Z., Hogan, M. J., Joshi, C.,  
Lipkowitz, et al

2015; 524 (7566): 442-?