

PUBLICATIONS

- “**Enhancing Bremsstrahlung production from ultraintense laser-solid interactions with front surface structures**”, S. Jiang, A.G. Krygier, D.W. Schumacher, K.U. Akli, R.R. Freeman, [Eur. Phys. J. D **68** \(10\) \(2014\)](#)
- “**Characterisation of deuterium spectra from laser driven multispecies sources by employing differentially filtered image plate detectors in Thomson spectrometers**”, A. Alejo, S. Kar, H. Ahmed, A.G. Krygier, D. Doria, R. Clarke, J. Fernandez, R.R. Freeman, J. Fuchs, A. Green, J. Green, D. Jung, A. Kleinschmidt, C. Lewis, J. Morrison, Z. Najmudin, H. Nakamura, G. Nersisyan, P. Norreys, M. Notley, M. Oliver, M. Roth, J. Ruiz, L. Vassura, M. Zepf, and M. Borghesi, [Rev. Sci. Inst. **85**, 093303 \(2014\)](#)
- “**On the origin of super-hot electrons from intense laser interactions with solid targets having moderate scale length preformed plasmas**”, A.G. Krygier, D.W. Schumacher, R.R. Freeman, [Phys. Plasmas **21**, 023112 \(2014\)](#)
- “**The effects of front-surface target structures on properties of relativistic laser-plasma electrons**”, S. Jiang, A.G. Krygier, D.W. Schumacher, K.U. Akli, R.R. Freeman, [PRE **89**, 013106 \(2014\)](#)
- “**A novel zirconium $K\alpha$ imager for high energy density physics research**”, K.U. Akli, et al., [RSI **82** 123503 \(2011\)](#)
- “**Using time-integrated K images to study refluxing and the extent of pre-plasmas in intense laser-plasma experiment**”, V. M. Ovchinnikov, D.W. Schumacher, et al., [Phys. Plasmas **18**, 112702 \(2011\)](#)
- “**Single-shot divergence measurements of a laser-generated relativistic electron beam**”, F. Perez, S. D. Baton, et al. [Phys. Plasmas **17**, 113106 \(2010\)](#)

CONFERENCE TALKS and POSTERS

- American Physical Society Division of Plasma Physics: 2014
- European Physical Society: 2014
- High Energy Density Laboratory Astrophysics: 2014
- American Physical Society Division of Plasma Physics: 2013
- International Conference on High Energy Density Science: 2013
- American Physical Society Division of Plasma Physics: 2011