

Simon Charles Bott-Suzuki

Publication List

sbottsuzuki@ucsd.edu

www.p3ucsd.com

Refereed Journal Papers

1. “The role of the Ion Acoustic instability in the development of the azimuthal current density profile in liner experiments at 1 MA” INVITED PAPER
S.C.Bott-Suzuki, S. W. Cordaro, L.S. Caballero Bendixsen, Levon Atoyan, Tom Byvank, W. Potter, B.R. Kusse, J.B. Greenly, and D. A. Hammer, *accepted for publication in IEEE Trans. Plasma Sci*, DOI: 10.1109/TPS.2017.2783192
2. “Time and Space resolved current density mapping in three dimensions using magnetic field probe array in a high voltage coaxial gap”
S.W. Cordaro, **S.C. Bott-Suzuki**, *Applied Physics*, **122**, 213303 (2017)
3. “The structure of bow shocks formed by the interaction of pulsed-power driven magnetised plasma flows with conducting obstacles”
G. C. Burdiak, S. V. Lebedev, S. N. Bland, T. Clayson, J. Hare, L. Suttle, F. Suzuki-Vidal, D. C. Garcia, and J. P. Chittenden, **S. Bott-Suzuki**, A. Ciardi, A. Frank, T. S. Lane, *Phys. Plasmas*, **24**, 072713 (2017).
4. “Study of the time-resolved, three dimensional current density distribution in solid metallic liners at 1 MA”,
S.C. Bott-Suzuki, S. W. Cordaro, L.S. Caballero Bendixsen, Levon Atoyan, Tom Byvank, Wm. Potter, B.R. Kusse, J.B. Greenly, and D. A. Hammer., *Phys. Plasmas*, **23**, 092711 (2016)
5. “Axial Mass fraction measurements in a 300kA dense plasma focus”
L.S. Caballero Bendixsen, **S. C. Bott-Suzuki**, S. W. Cordaro, M. Krishnan, S. Chapman, P. Coleman, J.P. Chittenden, *Phys. Plasmas*, **23**, 093112 (2016)
6. “Investigation of the effect of a power feed vacuum gap in solid liner experiments at 1 MA”,
S. C. Bott-Suzuki, S. W. Cordaro, L. S. Caballero Bendixsen, I. C. Blesener, L. Atoyan, T. Byvank, W. Potter, K. S. Bell, B. R. Kusse, J. B. Greenly, and D. A. Hammer, *Phys. Plasmas*, **22**, 094501 (2015)
7. “Two Dimensional Triangulation Of Breakdown In A High Voltage Coaxial Gap”,
S.W. Cordaro, **S.C. Bott-Suzuki**, L.S. Caballero Bendixsen, Levon Atoyan, Tom Byvank, William, Potter, B.R. Kusse, D. A. Hammer, J.B. Greenly ,*Rev. Sci. Instrum.* **86**, 073503 (2015)
8. “Investigation of Radiative Bow-Shocks in Magnetically Accelerated Plasma Flows”,
S. C. Bott-Suzuki , L. S. Caballero Bendixsen, S. W. Cordaro, I.C. Blesener, C. L. Hoyt, A. D. Cahill, B. R. Kusse, D. A. Hammer, P. A. Gourdain, C. E. Seyler, J. B. Greenly, J. P. Chittenden, N. Niassé, S. V. Lebedev, D. J. Ampleford, *Phys. Plasmas* **22** , 052710 (2015)
9. “Investigating Radial Wire Array Z Pinches as a Compact X-ray Source on the SATURN generator”,
D.J. Ampleford, S.N. Bland, C.A. Jennings, S.V. Lebedev, J.P. Chittenden, M.E. Cuneo, R.D.

- McBride, B. Jones, G.N. Hall, F. Suzuki-Vidal, J.D. Serrano, **S.C. Bott-Suzuki**, IEEE Trans, Plasma Sci., 43, 3344 (2015)
10. "Shock model description of the interaction radiation pulse in nested wire array z-pinches" D.J. Ampleford, C. A. Jennings, S. V. Lebedev, S. N. Bland, M. E. Cuneo, D. B. Sinars, **S. C. Bott**, G. N. Hall, F. Suzuki-Vidal, J. B. A. Palmer, and J. P. Chittenden, Phys. Plasmas, 19, 122711 (2012)
 11. "Demonstration of radiation pulse shaping capabilities using nested conical wire array z-pinches", D.J. Ampleford, S.N. Bland, M.E. Cuneo, S.V. Lebedev, D.B. Sinars, C.A. Jennings, E.M. Waisman, R.A. Vesey, G.N. Hall, F. Suzuki-Vidal, J.P. Chittenden, **S.C. Bott**. IEEE Trans. Plasma Sci., 40, 3334 (2012)
 12. "Experimental Analysis of the Acceleration Region in Tungsten Wire Arrays" **S. C. Bott**, Derek Mariscal, Kanchana Gunasekera, Jonathan Peebles, Farhat. N. Beg, D. A. Hammer, B. R. Kusse, J. B. Greenly, T.A Shelkovenko, S. A. Pikuz, I. C. Blesener, R. D. McBride, J. D. Douglass, K. S. Blesener, P. F. Knapp., IEEE Trans. Plasma Sci., 40, 3324 (2012)
 13. "A Collinear Self-Emission and Laser-backlighting Imaging Diagnostic", **S. C. Bott**, G. Collins IV, K. Gunasekera, D. Mariscal, F. N. Beg, D. M. Haas, F. Veloso, I.C. Blesener, A. D. Cahill, C. L. Hoyt, B. R. Kusse, D. A. Hammer, Rev. Sci. Instrumen. 83, 083507 (2012)
 14. "Effect of the global to local magnetic field ratio on the ablation modulations on x-pinches driven by 80 kA peak current", G W Collins, D Marsical, D M Haas, R E Madden, K Gunasekara, J Kim, M L L Abarr, **S C Bott**, Farhat N Beg and J P Chittenden, New Journal of Physics, 14, 043021 (2012)
 15. "Rayleigh-Taylor instability of an ultrathin foil accelerated by the radiation pressure of an intense laser", C. A. J. Palmer, J. Schreiber, S. R. Nagel, N. P. Dover, C. Bellei, F. N. Beg, **S. Bott**, R. J. Clarke, A. E. Dangor, S. M. Hassan, P. Hilz, D. Jung, S. Kneip, S. P. D. Mangles, K. L. Lancaster, A. Rehman, A. P. L. Robinson, C. Spindloe, J. Szerypo, M. Tatarakis, M. Yeung, M. Zepf, and Z. Najmudin. Phys. Rev. Lett. 108, 225002 (2012)
 16. "Examination of bow-shock formation in supersonic, radiatively cooled plasma flows" Jonathan L. Peebles, **Simon C. Bott**, Kanchana Gunasekera, Joohwan Kim, Leonard Harpster, Brian Evans, Daniel Gomez, Omri Paran, Chris Peterson, Farhat N. Beg, IEEE Trans. Plasma Sci., 39, 2422 (2011)
 17. "250 kA Compact Linear Transformer Driver (LTD) for Wire Array Z-Pinch Loads" **S. C. Bott**, D. M. Haas, R. E. Madden, U. Ueda, Y. Eshaq, G. Collins IV, K. Gunasekera, D. Mariscal, J. Peebles, F. N. Beg, M. Mazarakis, K. Struve, R. Sharpe, Phys. Rev. ST Accel. Beams, 14, 050401 (2011)
 18. "Numerical study of jets produced by conical wire arrays on the Magpie pulsed power generator" M. Bocchi, J. P. Chittenden, A. Ciardi, F. Suzuki-Vidal, G. N. Hall, P. de Grouchy, S. V. Lebedev and **S.C.Bott**, Astrophys Space Sci., 336, 27 (2011)
 19. "Experimental Studies of Magnetically Driven Plasma Jets" F. Suzuki-Vidal, • S.V. Lebedev, S.N. Bland, G.N. Hall, G. Swadling, A.J. Harvey-Thompson, G. Burdiak, P. de Grouchy, J.P. Chittenden, A. Marocchino, M. Bocchi, A. Ciardi, A. Frank, **S.C. Bott**, Astrophys. Space Sci., 336, 41 (2011)

20. "Supersonic jet formation and propagation in x-pinches" D.M. Haas, **S.C. Bott**, J. Kim, D.A. Mariscal, R.E. Madden, Y. Eshaq, U. Ueda, G. Collins IV, K. Gunasekera, F.N. Beg, J.P. Chittenden, N. Niasse, C.A. Jennings, *Astrophys. Space Sci.*, 336, 33 (2011)
21. "Bow-shocks in ablated plasma streams for nested wire array z-pinches: a laboratory astrophysics testbed for radiatively cooled shocks", D.J. Ampleford, C.A. Jennings, G.N. Hall, S.V. Lebedev, S.N. Bland, **S.C. Bott**, F. Suzuki-Vidal, J.B.A. Palmer, J.P. Chittenden, M.E. Cuneo, A. Frank, and E.G. Blackman, *Phys. Plasmas*, **17**, 056315 (2010)
22. "Generation of episodic magnetically driven plasma jets in a radial foil Z-pinch" Francisco Suzuki-Vidal, Sergey V. Lebedev, Simon N. Bland, Gareth N. Hall, George Swadling, Adam J. Harvey-Thompson, Jeremy P. Chittenden, Alberto Marocchino, Andrea Ciardi, Adam Frank, Eric G. Blackman, and **Simon C. Bott**, *Phys. Plasmas*, **17**, 112708 (2010)
23. "Special Issue on Z-Pinch Plasmas (Editorial), **Bott, S. C.**, Chittenden, J. P., Coverdale, C. A. Giuliani, J., *IEEE Trans. Plasma. Sci.*, **38**, 526 (2010)
24. "Effect of Wire Diameter and Addition of an Axial Magnetic Field on the Dynamics of Radial Wire Array Z-Pinches", Suzuki-Vidal, F.; Lebedev, S. V.; Bland, S. N.; Hall, G. N.; Harvey-Thompson, A. J.; Chittenden, J. P.; Marocchino, A.; **Bott, S. C.**; Palmer, J. B. A.; Ciardi, A., *IEEE Trans. Plasma. Sci.*, **38**, 581 (2010)
25. "Ablation studies of low number wire arrays at 200kA using a Linear Transformer Driver (LTD)" **Simon C. Bott**, David M. Haas, Yossof Eshaq, Utako Ueda, Robert. E. Madden, Gilbert Collins IV, Farhat N. Beg, *IEEE Trans. Plasma. Sci.*, **38**, 567 (2010)
26. "Study of the Effect of current rise-time on the formation of the precursor column in cylindrical wire array z-pinches at 1 MA", **S. C. Bott**, D. M. Haas, Y. Eshaq, U. Ueda, F. N. Beg, D. A. Hammer, B. Kusse, J. Greenly, T. A. Shelkovenko, S. A. Pikuz, I. C. Blesener, R. D. McBride, J. D. Douglass, K. Bell, P. Knapp, J. P. Chittenden, S. V. Lebedev, S. N. Bland, G. N. Hall, F. A. Suzuki Vidal, A. Marocchino, A. Harvey-Thomson, M. G. Haines, J. B. A. Palmer, A. Esaulov, and D. J. Ampleford, *Phys Plasmas*, **16**, 072701 (2009)
27. "Investigation of Carbon X-Pinches as a Source for Point-Projection Radiography", R. E. Madden, **S. C. Bott**, G Collins IV and F. N. Beg, *IEEE Trans. Plasma. Sci.*, **37**, 433 (2009)
28. "Quantitative analysis of plasma ablation using inverse wire array Z pinches" A. J. Harvey-Thompson, S. V. Lebedev, S. N. Bland, J. P. Chittenden, G. N. Hall, A. Marocchino, F. Suzuki-Vidal, **S. C. Bott**, J. B. A. Palmer, and C. Ning, *Phys. Plasmas*, **16**, 022701 (2009)
29. "Formation of episodic magnetically driven radiatively cooled plasma jets in the laboratory", F. Suzuki-Vidal, S. V. Lebedev, A. Ciardi, S. N. Bland, J. P. Chittenden, G. N. Hall, A. Harvey-Thompson, A. Marocchino, C. Ning, C. Stehle, A. Frank, E. G. Blackman, **S. C. Bott** and T. Ray, *Astrophys. Space Sci*, **332**, 19 (2009).
30. "Quantitative Measurements of Wire Ablation in Tungsten X-pinches at 80 kA", **S. C. Bott**, D. M. Haas, Y. Eshaq, U. Ueda, S. V. Lebedev, J.P. Chittenden, J. B. A. Palmer, S. N. Bland, G. N. Hall, D.J. Ampleford, and F. N. Beg, *IEEE Trans. Plasma. Sci.* **36**, 2759 (2008)
31. "Cross-point coronal plasma dynamics in two- and four-wire x-pinches", R. E. Madden, **S. C. Bott**, D. Haas, Y. Eshaq, U. Ueda, G. Collins, and F. N. Beg, *Phys Plasmas*, **15**, 112701 (2008)

32. “Radiography of Foam Targets in Wire Array Z-Pinches”, J. B. A. Palmer, **S. C. Bott**, S. N. Bland, D. J. Ampleford, S. V. Lebedev, J. P. Chittenden, F. A. Suzuki Vidal, *IEEE Trans. Plasma. Sci.*, **36**, 1272 (2008)
33. “Radiography of Modulated Wire Array Z-Pinches”, D. J. Ampleford, B. M. Jones, **S. C. Bott**, S. V. Lebedev, S. N. Bland, G. N. Hall, J. B. A. Palmer, *IEEE Trans. Plasma. Sci.*, **36**, 1270 (2008)
34. “High Resolution Laser Schlieren Imaging of Coronal Plasma Evolution in 80 kA X-pinches”, **S. C. Bott**, D. M. Haas, U. Ueda, Y. Eshaq, R. Madden, G. Collins, and F. N. Beg, *IEEE Trans. Plasma. Sci.*, **36**, 1274 (2008)
35. “Modifying Wire-Array Z-Pinch Ablation Structure Using Coiled Arrays”, G. N. Hall, J. P. Chittenden, S. N. Bland, S. V. Lebedev, **S. C. Bott**, C. Jennings, J. B. A. Palmer, and F. Suzuki-Vidal, *Phys. Rev. Lett.* **100**, 065003 (2008)
36. “Supersonic Radiatively Cooled Rotating Flows and Jets in the Laboratory”, D. J. Ampleford, S. V. Lebedev, A. Ciardi, S. N. Bland, **S. C. Bott**, G. N. Hall, N. Naz, C. A. Jennings, M. Sherlock, J. P. Chittenden, J. B. A. Palmer, A. Frank, and E. Blackman, *Phys. Rev. Lett.*, **100**, 035001, (2008)
37. “The Formation of Precursor Structures in Cylindrical and “4 × 4” Wire Arrays”, **Simon C. Bott**, Sergey V. Lebedev, S. N. Bland, Jeremy P. Chittenden, Gareth N. Hall, Francisco A. Suzuki Vidal, Alberto Marocchino, James B. A. Palmer, David J. Ampleford, and Chris A. Jennings, *IEEE Trans. Plasma Sci.*, **35**, p165 (2007) [invited paper]
38. “Laboratory modeling of standing shocks and radiatively cooled jets with angular momentum”, D.J. Ampleford, S.V. Lebedev, A. Ciardi, S.N. Bland, **S.C. Bott**, G.N. Hall, N. Naz, C.A. Jennings, M. Sherlock, J.P. Chittenden, A. Frank, E. Blackman, *Astrophys. Space. Sci.*, **307**, p51 (2007)
39. “Structure of the dense cores and ablation plasmas in the initiation phase of tungsten wire-array Z pinches”, J. D. Douglass, S. A. Pikuz, T. A. Shelkovenko, D. A. Hammer, S. N. Bland, **S. C. Bott**, R. D. McBride, *Phys. Plasmas*, **14**, 012704 (2007)
40. “Jet Deflection by a Quasi-Steady-State Side Wind in the Laboratory”, David Ampleford, Andrea Ciardi, Sergey Lebedev, Simon Bland, **Simon Bott**, Jeremy Chittenden, Gareth Hall, Adam Frank, Eric Blackman, *Astrophys. Space. Sci.*, **307**, p29 (2007)
41. “3D MHD Simulations of Laboratory Plasma Jets”, Ciardi, S. V. Lebedev, A. Frank, E. G. Blackman, D. J. Ampleford, C. A. Jennings, J. P. Chittenden, T. Lery, S. N. Bland, S. C. Bott, G. N. Hall, J. Rapley, F. A. Suzuki Vidal and A. Marocchino, *Astrophys. Space Sci.*, **307**, p17, (2007)
42. “Dynamics of low-density coronal plasma in low current x-pinches”, D Haas, **S. C. Bott**, V Vikhrev, Y Eshaq, U Ueda, T Zhang, E Baranova, S I Krasheninnikov, F N Beg, *Plasma Phys. Control. Fusion*, **49**, p1151 (2007)
43. “The evolution of magnetic tower jets in the laboratory”, Ciardi, S. V. Lebedev, A. Frank and E. G. Blackman, J. P. Chittenden, C. J. Jennings, D. J. Ampleford, S. N. Bland, **S. C. Bott**, J. Rapley, G. N. Hall, F. A. Suzuki-Vidal, A. Marocchino, T. Lery, C. Stehle, *Phys. Plasmas*, **14**, 056501 (2007)

44. "Implosion and stagnation of wire array Z pinches", S. N. Bland, S. V. Lebedev, J. P. Chittenden, G. N. Hall, F. Suzuki-Vidal, D. J. Ampleford, **S. C. Bott**, J. B. A. Palmer, S. A. Pikuz, and T. A. Shelkovenko, *Phys. Plasmas*, **14**, 056315 (2007)
45. "Dynamics of conical wire array Z-pinch implosions", D. J. Ampleford, S. V. Lebedev, S. N. Bland, **S. C. Bott**, J. P. Chittenden, C. A. Jennings, V. L. Kantsyrev, A. S. Safronova, V. V. Ivanov, D. A. Fedin, P. J. Laca, M. F. Yilmaz, V. Nalajala, I. Shrestha, K. Williamson, G. Osborne, A. Haboub, A. Ciardi *Phys. Plasmas* **14**, 102704 (2007)
46. "Diagnostics for Studying the Ablation and Implosion of Wire Array Z-pinches", S.N. Bland, D.J. Ampleford, **S.C. Bott**, G.N. Hall, S.V. Lebedev, J.B.A. Palmer, S.A. Pikuz, T.A. Shelkovenko, and F. Suzuki, *Rev. Sci. Instrum.* **77**, 10F326 (2006).
47. "Use of Faraday Probing to Estimate Current Distribution in Wire Array Z-Pinches", S.N. Bland, D.J. Ampleford, **S.C. Bott**, A. Guite, G.N. Hall, S. M. Hardy, K. H. Kwek, S.V. Lebedev, P. Shardlow, A. Harvey-Thompson, F. Suzuki, *Rev. Sci. Instrum*, **77**, 10E315, (2006).
48. "Structure of stagnated plasma in aluminum wire array Z pinches", G. N. Hall, S. A. Pikuz, T. A. Shelkovenko, S. N. Bland, S. V. Lebedev, D. J. Ampleford, J. B. A. Palmer, **S. C. Bott**, J. Rapley, and J. P. Chittenden J. P. Apruzese, *Phys. Plasmas*, **13**, 082701 (2006)
49. "Measurement and modeling of the implosion of wire arrays with seeded instabilities", Brent Jones, C.J. Garasi, D. J. Ampleford, C. Deeney, T. A. Mehlhorn S. N. Bland, S. V. Lebedev, J. P. Chittenden, **S. C. Bott**, J. B. A. Palmer, G. N. Hall, and J. Rapley, *Phys. Plasmas*, **13**, 056313 (2006)
50. "Dynamics of cylindrically converging precursor plasma flow in wire array z-pinch experiments", **S.C.Bott**, S.V. Lebedev, F.N Beg, S.N. Bland, J.P. Chittenden, A. Ciardi, M.G. Haines, D.J. Ampleford, C. Jennings, J. Rapley, J. Palmer, M.Sherlock, *Phys. Rev. E.* **74**, 046403-1 to 046403-21 (2006)
51. "Modelling magnetic tower jets in the laboratory", Ciardi, S.V. Lebedev, J.P. Chittenden, D.J. Ampleford, S.N. Bland, **S.C. Bott**, J. Rapley, *Astrophys. Space Sci.*, **298**, p277 (2005).
52. "Study of Three-Dimensional Structure in Wire Array Z-Pinches by Controlled Seeding of Axial Modulations in Wire Radius", Jones, C. Deeney, J.L. McKenney, C.J. Garasi, S.N. Bland, S.V. Lebedev, J.P. Chittenden, **S.C. Bott**, D.J. Ampleford, J.B.A. Palmer, J. Rapley, G. Hall, *Phys. Rev. Lett.*, **95**, 225001 (2005)
53. "Formation of working surfaces in radiatively cooled laboratory jets", D.J. Ampleford, S.V. Lebedev, A. Ciardi, S.N. Bland, **S.C. Bott**, J.P. Chittenden G. Hall, C.A. Jennings, J. Armitage, G. Blyth, S. Christie, L. Rutland, *Astrophys. Space Sci.*, **298**, p241 (2005).
54. "Effect of Radial-Electric-Field Polarity on Wire-Array Z-Pinch Dynamics", S. N. Bland, S.V. Lebedev, J. P. Chittenden, D. J. Ampleford, **S. C. Bott**, J. A. Gomez, M. G. Haines, G. N. Hall, D. A. Hammer, I. H. Mitchell, and J. B. A. Palmer, *Phys. Rev. Lett.*, **95**, 135001 (2005)
55. "Magnetic Tower Outflows from a Radial Wire Array Z-Pinch", S.V. Lebedev, A. Ciardi, D.J. Ampleford, S.N. Bland, **S.C. Bott**, J.P. Chittenden, G.N. Hall, J. Rapley, C.A. Jennings, A. Frank, E.G. Blackman, T. Lery, *MNRAS*, **361**, p97 (2005).
56. "Extreme Ultraviolet imaging of wire array z-pinch experiments", S.N. Bland, D.J. Ampleford, **S.C. Bott**, S.V. Lebedev, J.B.A. Palmer, S.A. Pikuz, T.A. Shelkovenko, *Rev. Sci. Instrum.*, **75**, p3941 (2004)

57. "Implosion dynamics of wire array z-pinches: Experiments at Imperial College", S.V. Lebedev, D.J. Ampleford, S.N. Bland, **S.C. Bott**, J.P. Chittenden, C. Jennings, M.G. Haines, J.B.A Palmer, J. Rapley, *Nuclear Fusion*, **44**, p215 (2004)
58. "Use of spherically bent crystals to diagnose wire array z pinches", T. A. Shelkovenko, S. A. Pikuz, D. A. Hammer, D. J. Ampleford, S. N. Bland, **S. C. Bott**, J. P. Chittenden, and S. V. Lebedev, *Rev. Sci. Instrum.* **75**, p3681 (2004)
59. "Chemically etched modulation in wire radius for wire array Z-pinch perturbation studies", Jones, C.Deeney, J.L McKenny, J.E.Garrity, D.K.Lobley, K.L.Martin, A.E.Griego, J.P.Ramacciotti, S.N. Bland, S.V. Lebedev, **S.C. Bott**, D.J. Ampleford, J.B.A Palmer, J. Rapley, G.Hall, *Rev. Sci. Instrum.* **75**, p5030 (2004)
60. "Use of X-pinches to Diagnose behaviour of low density CH foam on axis of wire array Z-pinches", **S.C.Bott**, J.B.A.Palmer, D.J.Ampleford, S.N.Bland, J.P.Chittenden, S.V.Lebedev, *Rev. Sci. Instrum.* **75**, p3944 (2004)
61. "Implosion dynamics of wire array Z-pinches: experiments at Imperial College", S.V. Lebedev, D.J. Ampleford, S.N. Bland, **S.C. Bott**, J.P. Chittenden, C. Jennings, M.G. Haines, J.B.A. Palmer J. Rapley, *Nuc. Fusion*, **44**, S215 (2004)

Conference Proceedings Papers

1. "Coaxial vacuum gap breakdown for pulsed power liners", S. W. Cordaro, S. C. Bott-Suzuki, L. S. Caballero Bendixsen, D. M. Haas and C. Meisenhelder, *AIP Conf. Proc.* **1639** , 138 (2014)
2. "Effect of Current Rise-time on the Formation of Precursor Structures and Mass Ablation Rate in Cylindrical Wire Array Z-Pinches" **S. C. Bott**, D. M. Haas, Y. Eshaq, U. Ueda, F. N. Beg, D. A. Hammer, B. Kusse, J. Greenly, T. A. Shelkovenko, S. A. Pikuz, I. C. Blesener, R. D. McBride, J. D. Douglass, K. Bell, P. Knapp, J. P. Chittenden, S. V. Lebedev, S. N. Bland, G. N. Hall, F. A. Suzuki, A. Marocchino, A. Harvey-Thomson, and D. J. Ampleford, *AIP Conf. Proc.* **1088**, 25 (2009)
3. "Modifying Wire Array Z-pinch Ablation Structure and Implosion Dynamics Using Coiled Arrays", Gareth N. Hall Simon N. Bland, Sergey V. Lebedev, Jeremy P. Chittenden, James B. A. Palmer, Francisco A. Suzuki-Vidal, George F. Swadling, Nicolas Niasse, P. F. Knapp, I. C. Blesener, R. D. McBride, D. A. Chalenski, K. S. Bell, J. B. Greenly, T. Blanchard, H. Wilhelm, D. A. Hammer, B. R. Kusse, and **Simon C. Bott**, *AIP Conf. Proc.* **1088**, 89 (2009)
4. "Astrophysical Jets with Conical Wire Arrays: Radiative Cooling, Rotation & Deflection", D. J. Ampleford, S. V. Lebedev, A. Ciardi, S. N. Bland, G. N. Hall, S. C. Bott, F. Suzuki-Vidal, J. B. A. Palmer, C. A. Jennings, and J. P. Chittenden, *AIP Conf. Proc.*, **1088**, 83 (2009)
5. "Quantitative Analysis of Plasma Ablation Using Inverse Wire Array Z-pinches", A. J. Harvey-Thompson, S. V. Lebedev, S. N. Bland, S. C. Bott, J. P. Chittenden, G. N. Hall, C. Ning, and F. Suzuki-Vidal, *AIP Conf. Proc.*, **1088**, 105 (2009)
6. "Technical Summary of the First U.S. Plasma Jet Workshop", S. C. Hsu, *J. Fusion Energy*, DOI 10.1007/s10894-008-9162-1 (2008) – **S.C. Bott** attendee and contributor

7. Plasma Ablation and Precursor Column Formation in Wire-Array Z-Pinches”, **S.C.Bott**, S.V.Lebedev, S.N.Bland, J.P.Chittenden, M.Sherlock, M.G.Haines, D.J.Ampleford, G.N.Hall, C.A.Jennings, J.B.A.Palmer, J.Rapley, *AIP Conf. Proc.*, **808**, 37 (2006)
8. “Structure of Stagnated Plasma in Aluminium Wire Array Z-pinches”, G. N. Hall, S. A. Pikuz, T. A. Shelkovenko, S. N. Bland, S. V. Lebedev, D. J. Ampleford, J. B. A. Palmer, **S. C. Bott**, J. Rapley, and J. P. Chittenden, *AIP Conf. Proc.*, **808**, 53 (2006)
9. “3D Resistive, Radiative MHD Modeling of Z-pinches”, C. A. Jennings, J. P. Chittenden, A. Ciardi, M. Sherlock, S. V. Lebedev, D. J. Ampleford, S. N. Bland, **S. C. Bott**, G. Hall, and J. Rapley, *AIP Conf. Proc.*, **808**, 57 (2006)
10. “Seeded Perturbations in Wire Array Z-Pinches”, B. Jones, C. Deeney, J. L.McKenney, C. J. Garasi, T. A.Mehlhorn, A.C. Robinson, S. E. Wunsch, C. A. Coverdale, P. D. LePell, S. N.Bland, S. V. Lebedev, J. P. Chittenden, **S. C. Bott**, D. J.Ampleford, J. B. A. Palmer, G. N. Hall, J. Rapley, B. V. Oliver, A.S. Safronova, V. Kantsyrev, V. V. Ivanov, V. I. Sotnikov, D. Fedin, N.Ouart, F. Yilmaz, V. Nalajala, S. Pokala and I. Shrestha, *AIP Conf. Proc.*, **808**, 61 (2006)
11. “Recent Wire Array Experiments on the MAGPIE Generator“, S. V. Lebedev, D. J. Ampleford, S. N. Bland, **S. C. Bott**, and G. N. Hall, *AIP Conf. Proc.*, **808**, 69 (2006)
12. “The Effect of Wire Initiation on Array Dynamics”, S.N. Bland, S.V. Lebedev, G.N. Hall, D.J. Ampleford, **S.C. Bott**, J.P. Chittenden, M.G.Haines, J. Rapley, I.H. Mitchell, J.A. Gómez, D.A Hammer, S.A. Pikuz and T.A.Shelkovenko, *AIP Conf. Proc.*, **808**, 9 (2006)
13. “Laboratory Experiments with Supersonic Radiatively Cooled Jets: Jet Deflection via Crosswinds and Magnetic Tower Outflows”, S. V. Lebedev, A. Ciardi, D. Ampleford, S. N. Bland, S. C. Bott, J. P. Chittenden, G. Hall, J. Rapley, A. Frank, and E. G. Blackman, *AIP Conf. Proc.*, **827**, 329 (2006)
14. “Laboratory modeling of radiatively cooled jets using conical wire array z-pinches” Ampleford, D. J.; Lebedev, S. V.; Ciardi, A.; Chittenden, J. P.; Bland, S. N.; **Bott, S. C.**; Rapley, J.; Sherlock, M.; Jennings, C.; Frank, A.; Gardiner, T., *Plasmas in the Laboratory and in the Universe: New Insights and New Challenges. AIP Conference Proceedings*, **703**, 443-446 (2004)
15. “Laboratory astrophysics: 2D and 3D numerical modeling of jets and flows produced in wire array experiments”, A. Ciardi, S. V. Lebedev, D. J. Ampleford, J. P. Chittenden, S. N. Bland, M. Sherlock, J. Rapley, **S. C. Bott**, and C. Jennings, *AIP Conference Proceedings*, **703**, 447-450 (2004)
16. “Wire array z-pinch experiments at Imperial College”, Lebedev, S.V.; Ampleford, D.J.; Bland, S.N.; **Bott, S.C.**, Chittenden, J.P.; Jennings, C.; Haines, M.G.; Rapley, J.; Palmer, J.B.A., *Proceedings of 3rd Conference on Inertial Fusion Sciences and Applications*, 7-12 September 2003, Monterey (2004)