James F. Steiner (Jack) Publication List

Refereed Publications

59. *A Remarkably Loud Quasi-Periodicity after a Star is Disrupted by a Massive Black Hole*
D. R. Pasham, R. A. Remillard, P. C. Fragile, ***et al.***, 2019, Science, *in press*

58. *The Corona Contracts in a New Black-Hole Transient*
E. M. Kara, **J. F. Steiner**, A. C. Fabian, *et al.*, Nature, 2019, *in press.*

57. *The Soft-Excess in Mrk 509: Warm Corona or Relativistic Reflection?*
J. A. García, E. M. Kara, D. J. Walton, ***et al.***, 2019, ApJ, em in press

56. *An embedded X-ray source shines through the aspherical AT2018cow: revealing the inner workings of the most luminous fast-evolving optical transients*
R. Marguitti, B. D. Metzger, R. Chornock, ***et al.***, 2019, ApJ, *in press.*

55. *A NICER Discovery of a Low-frequency Quasi-periodic Oscillation in the Soft-intermediate State of MAXI J1535–571* A. L. Stevens, P. Uttley, D. Altamirano, ***et al.***, 2018, ApJ, 865, 15

54. *Reflection Spectroscopy of the Black Hole Binary XTE J1752-223 in Its Long-stable Hard State*
J. A. García, **J. F. Steiner**, V. Grinberg, *et al.*, 2018, ApJ, 864, 25

53. *A Persistent Disk Wind in GRS 1915+105 with NICER*
J. Neilsen, E. Cackett, R. A. Remillard, ***et al.***, 2018 ApJ, 860, 19

52. *Detection of Reflection Features in the Neutron Star Low-mass X-Ray Binary Serpens X-1 with NICER*
R. M. Ludlam, J. M. Miller, Z. Arzoumanian, ***et al.***, 2018, ApJ, 858, 5

51. *A Potential Cyclotron Resonant Scattering Feature in the Ultraluminous X-Ray Source Pulsar NGC 300 ULX-1 Seen by NuSTAR and XMM-Newton*
D. J. Walton, M. Bachetti, F. Furst, ***et al.***, 2018, ApJ, 857, 3

50. *The Evolution of GX 339–4 in the Low-Hard State as Seen by NuSTAR and Swift*
J. Wang-Ji, J. A. García, **J. F. Steiner**, *et al.*, 2018, ApJ, 855, 61

49. *Absence of Reflection Features in NuSTAR Spectra of the Luminous Neutron Star X-ray Binary GX 5–1*
J. Homan, **J. F. Steiner**, D. Lin, *et al.*, 2018, ApJ, 853, 157

48. *Testing the Performance and Accuracy of the RELXILL Model For the Relativistic X-ray Reflection from Accretion Disks*
K. Choudhury, J. A. García, **J. F. Steiner**, & C. Bambi, 2017, ApJ, 851, 57

47. *Self-Consistent Black Hole Accretion Spectral Models and the Forgotten Role of Coronal Comptonization of Reflection Emission*
J. F. Steiner, J. A. García, W. Eikmann, *et al.*, 2017, ApJ, 836, 119

46. *Unraveling the Formation History of the Black Hole X-ray Binary LMC X-3 from ZAMS to Present*
M. Sørensen, T. Fragos, **J. F. Steiner**, *et al.*, 2017, A&A, 597, A12

45. *The Effects of High Density on the X-ray Spectrum Reflected from Accretion Discs around Black Holes*
J. A. García, A. C. Fabian, T. R. Kallman, ***et al.***, 2016, MNRAS, 462, 751

44. *Stronger Reflection from Black Hole Accretion Disks in Soft X-Ray States*
J. F. Steiner, R. A. Remillard, J. A. García, & J. E. McClintock, 2016, ApJ, 829, 22

43. *On the Theoretical Framework of Magnetized Outflows from Stellar-Mass BHs and Related Observations*
D. M. Christodoulou, I. Contopoulos, D. Kazanas, & **J. F. Steiner**, 2016, MNRAS, 461, 2650

42. *The Spin of The Black Hole in the X-ray Binary Nova Muscae 1991*
Z. Chen, L. Gou, J. E. McClintock, **J. F. Steiner**, *et al.*, 2016, ApJ, 825, 45

41. *Testing the Kerr Nature of BH Candidates Using Iron Line Reverberation Mapping in the CPR Framework*
J. Jiang, C. Bambi, & **J. F. Steiner**, 2016, Phys. Rev. D, 93, 123008

40. *X-Ray Spectral Analysis of the Steady States of GRS1915+105*
C. S. Peris, R. A. Remillard, **J. F. Steiner**, *et al.*, 2016, ApJ, 822, 60

39. *Testing the No-Hair Theorem with the Continuum-Fitting and the Iron Line Methods: a Short Review*
C. Bambi, J. Jiang, & **J. F. Steiner**, 2016, Class. Quant. Grav., 33, 64001

38. *An Empirical Method for Improving the Quality of RXTE HEXTE Spectra*
J. A. García, V. Grinberg, **J. F. Steiner**, *et al.*, 2016, ApJ, 819, 76

37. *On the Spin of the Black Hole in IC 10 X-1*
J. F. Steiner, D. J. Walton, J. A. García, *et al.*, 2016, ApJ, 817, 154

36. *X-Ray Reflection of the BH Hole GX 339–4: Exploring the Hard State with Unprecedented Sensitivity*
J. A. García, **J. F. Steiner**, J. E. McClintock, *et al.*, 2015, ApJ, 813, 84

35. *Testing the Kerr Nature of Black Hole Candidates Using Iron Line Spectra in the CPR Framework*
J. Jiang, C. Bambi, & **J. F. Steiner**, 2015, ApJ, 811, 130

34. *On Estimating the High-energy Cutoff in the X-Ray Spectra of Black Holes via Reflection Spectroscopy*
J. A. García, T. Dauser, **J. F. Steiner**, *et al.*, 2015, ApJ, 808, 37

33. *Tomography of X-ray Nova Muscae 1991: Evidence for Ongoing Mass Transfer and Stream-Disc Overflow*
C. S. Peris, S. D. Vrtilek, **J. F. Steiner**, *et al.*, 2015, MNRAS, 449, 1584

32. *Death by Dynamics: Planetoid-Induced Explosions on White Dwarfs*
R. Di Stefano, R. Fisher, J. Guillochon, & **J. F. Steiner**, 2015, submitted (arXiv: 1501.07837)

31. *Using Iron Line Reverberation and Spectroscopy to Distinguish Kerr and non-Kerr Black Holes*
J. Jiang, C. Bambi, & **J. F. Steiner**, 2016, JCAP, 5, 25

30. *A Parallax Distance to the Microquasar GRS 1915+105 and a Revised Estimate of its Black Hole Mass*
M. J. Reid, J. E. McClintock, **J. F. Steiner**, *et al.*, 2014, ApJ, 796, 2

29. *An Empirical Method for Improving the Quality of RXTE PCA Spectra*
J. A. García, J. E. McClintock, **J. F. Steiner**, R. A. Remillard, & V. Grinberg, 2014, ApJ, 794, 73

28. *The Mass of the Black Hole in LMC X–3*
J. A. Orosz, **J. F. Steiner**, J. E. McClintock, *et al.*, 2014, ApJ, 794, 154

27. *The Low-Spin Black Hole in LMC X–3*
J. F. Steiner, J. E. McClintock, J. A. Orosz, *et al.*, 2014, ApJL, 793, L29

26. *Energy-Dependent "Eclipsing" in IC10 X–1, Hard Evidence for an Extended Corona and Implications*
R. Barnard, **J. F. Steiner**, A. F. Prestwich, *et al.*, 2014, ApJ, 792, 131

25. *Confirmation via the Continuum-Fitting Method that the Spin of the BH in Cygnus X–1 is Extreme*
L. Gou, J. E. McClintock, R. A. Remillard, **J. F. Steiner**, *et al.*, 2014, ApJ, 790, 29

24. *Modeling the Optical-X-ray Accretion Lag in LMC X–3: Insights into Black-Hole Accretion Physics*
J. F. Steiner, J. E. McClintock, J. A. Orosz, *et al.*, 2014, ApJ, 783, 101

23. *Improved Reflection Models of Black Hole Accretion Disks: Testing the Angular Distribution of X-rays*
J. A. García, T. Dauser, T. R. Kallman, **J. F. Steiner**, *et al.*, 2014, ApJ, 782, 76

22. *Black Hole Spin via Continuum Fitting and the Role of Spin in Powering Transient Jets*
J. E. McClintock, R. Narayan, & **J. F. Steiner**, 2014, Space Sci. Rev., 183, 295

21. *The Closest Look at 1H0707–495: X-ray Reverberation Lags with 1.3 Ms of Data*
E. M. Kara, A. C. Fabian, E. Cackett, **J. F. Steiner**, *et al.*, 2013, MNRAS, 428, 2795

20. *Jet Power and BH Spin: Testing an Empirical Relationship and Using it to Predict the Spin of Six BHs*
J. F. Steiner, J. E. McClintock, & R. Narayan, 2013, ApJ, 762, 104

19. *Long XMM Obs. of the NL Sy1 Galaxy IRAS13224–3809: Rapid Variability, High Spin and a Soft Lag*
A. C. Fabian, E. M. Kara, D. J. Walton, ***et al.***, 2013, MNRAS, 429, 2917

18. *Evidence of Light-Bending Effects and its Implication for Spectral State Transitions*
R. Reis, J. Miller, M. Reynolds, A. Fabian, D. Walton, E. Cackett, **J. Steiner**, 2013, ApJ, 763, 48

17. *A Broad Iron Line in LMC X–1*
J. F. Steiner, R. C. Reis, A. C. Fabian, R. A. Remillard, *et al.*, 2012, MNRAS, 427, 2552

16. *The Distance, Inclination, and Spin of the Black Hole Microquasar H1743–322*
J. F. Steiner, J. E. McClintock, & M. J. Reid, 2012, ApJL, 745, 7

15. *Modeling the Jet Kinematics of the Microquasar XTE J1550–564: A Constraint on Spin-Orbit Alignment*
J. F. Steiner & J. E. McClintock, 2012, ApJ, 745, 136

14. *The Extreme Spin of the Black Hole in Cygnus X–1*
L. Gou, J. E. McClintock, M. J. Reid, J. A. Orosz, **J. F. Steiner**, *et al.*, 2011, ApJ, 742, 85

13. *Testing Slim-Disk Models on the Thermal Spectra of LMC X–3*
O. Straub, M. Bursa, A. Sądowski, **J. F. Steiner**, *et al.*, 2011, A&A, 533, 67

12. *The Spin of the BH Microquasar XTE J1550–564 via the Continuum-Fitting and Fe-Line Methods*
J. F. Steiner, R. C. Reis, J. E. McClintock, *et al.*, 2011, MNRAS, 416, 941

11. *An Improved Dynamical Model for the Microquasar XTE J1550–564*
J. A. Orosz, **J. F. Steiner**, J. E. McClintock, *et al.*, 2011, ApJ, 730, 750

10. *Measuring the Spins of Accreting Black Holes*
J. E. McClintock, R. Narayan, ***et al.***, 2011, Class. Quant. Grav., 28, 4009

9. *Measuring Black Hole Spin by the Continuum-Fitting Method: Effect of Deviations from the Novikov-Thorne Disc Model*
A. K. Kulkarni, R. F. Penna, R. V. Shcherbakov, ***et al.***, 2011, MNRAS, 414, 1183

8. *Variable O VI and N V Emission from the X-ray Binary LMC X–3: Heating of the Black Hole Companion*
L. Song, T. M. Tripp, Q. D. Wang, ***et al.***, 2010, AJ, 140, 794

7. *The Constant Inner-Disk Radius of LMC X–3: A Basis for Measuring Black Hole Spin*
J. F. Steiner, J. E. McClintock, R. A. Remillard, L. Gou, R. Narayan, 2010, ApJL, 718, L117

6. *The Spin of the Black Hole in the Soft X-ray Transient A0620–00*
   L. Gou, J. E. McClintock, **J. F. Steiner**, *et al.*, 2010, ApJL, 718, L122

5. *A Simple Comptonization Model*
   J. F. Steiner, R. Narayan, J. E. McClintock, & K. Ebisawa, 2009, PASP, 121, 1279

4. *Measuring BH Spin via the X-ray Continuum-Fitting Method: Beyond the Thermal Dominant State*
   J. F. Steiner, J. E. McClintock, R. A. Remillard, R. Narayan, & L. Gou, 2009, ApJL, 701, L83

3. *A Determination of the Spin of the Black Hole Primary in LMC X–1*
   L. Gou, J. E. McClintock, J. Liu, ***et al.***, 2009, ApJ, 701, 1076

2. *The Starburst in the Abell 1835 Cluster Central Galaxy*
   B. R. McNamara, D. A. Rafferty, L. Bîrzan, **J. F. Steiner**, *et al.*, 2006, ApJ, 648, 16

1. *Branching Fractions for the Mg-like 3s3p 3s3d and 3s3p $3p^2$ Transition Arrays*
   J. F. Steiner & L. J. Curtis, 2004, J. Phys B., 37, 3771

Conference Proceedings

3. *Black Hole Spin Measurements via X-ray Continuum Spectroscopy*
   J. F. Steiner, J. E. McClintock, R. Narayan, & L. Gou, 2011, Proceedings HTRS 2011

2. *Measuring the Spins of Stellar Black Holes: A Progress Report*
   J. E. McClintock, R. Narayan, ***et al.***, 2010, Proc. Probing Strong Gravity

1. *Automated Atomicscale Constriction*
   T. Skeini, **J. F. Steiner**, & S.-W. Hla, 2006, IEEE Nano 2006 Proceedings, 610