

Curriculum Vitae

Dr. Emrah Kalemci

Sabancı University, Faculty of Engineering and Natural Sciences, Orhanlı-Tuzla, İstanbul, 34956

Phone: +90 (216) 483-9614

Fax: +90 (216) 483-9550

E-mail: ekalemci@sabanciuniv.edu

Education:

Ph.D. Physics 2002 University of California, San Diego “Temporal studies of black hole transients during outburst decay”

M. Sc. Physics 2000 University of California, San Diego

B.S. Physics 1996 Middle East Technical University, Ankara/TURKEY
(With high honors, 2nd in class)

Honors/Awards:

TUBITAK¹ Incentive Award given to young scientists, 2010

Turkish Academy of Sciences, Successful Young Scientist Award (TUBA – GEBIP, 2007)

NATO A1 Fellow

Outstanding Achievement in Teaching (Sabancı University Students, 2015-2016)

Work Experience:

Jan. 2005 – present : Sabancı University, Istanbul, Turkey, Faculty Member (Assoc. Prof.)

2003 – 2005 (Sep) : SSL, UC Berkeley, Berkeley, CA - Postdoctoral Research Scholar

1998 - 2002: UC San Diego, La Jolla, CA - Graduate Research Assistant

1997 - 1998: UC San Diego, La Jolla, CA – Graduate Teaching Assistant

1996 - 1997: Middle East Technical University, Ankara – Graduate Teaching Assistant

Other Experience:

Peer Reviewing

Time Allocation Committee, Chandra X-ray Observatory, AO17

Time Allocation Committee, INTEGRAL Satellite AO-7, AO-8

Time Allocation Committee, RXTE Satellite Cycles 9 and 10.

Reviewer for ApJ, ApJ Letters, MNRAS, Space Science Reviews, NIM-A

Peer reviewer for several TUBITAK projects and proposals

Peer reviewer for Fonds de la Recherche Scientifique (FNRS) of Belgium

Peer reviewer for The Netherlands Organisation for Scientific Research (NWO)

¹ TUBITAK: The Scientific and Technological Research Council of Turkey

Peer reviewer for NYU-Abu Dhabi internal projects

Conference Organizations/Committee Memberships

Head of Scientific Organizing Committee (SOC), “7th Microquasar Workshop”, 1-5 Sep 2008, Foça, Turkey

SOC Member, “DAG MIRA-2017 (Eastern Anatolian Observatory Meeting on Infrared Astronomy)”, Summer 2017 to be held in Erzurum, Turkey

SOC Member, “Black Holes by the Black Sea”, 25-29 June 2012, Istanbul, Turkey

SOC Member, “Black Hole Universe 2012”, 18-22 June 2012, Bamberg, Germany

SOC Member, “Black Hole Workshop, Tales of Power and Destruction”, 18-22 July 2011, Winchester, UK

SOC Member, IAU Symposium 275 “Jets on all Scales”, 13-17 Sep 2010, Buenos Aires, Argentina

SOC Member, “Astrophysics of Neutron Stars”, 2-6 August 2010, Çeşme, Turkey

SOC Member, “2nd Summer School on Multiwavelength Astronomy”, May 2010, Southampton, UK

SOC Member, “XVII. National Astronomy Conference”, 31 Aug–4 Sep 2010, Adana, Turkey

SOC Member, “1st Summer School on Multiwavelength Astronomy”, June 29 – July 10 2009, Paris, France

LOC Member, “Astrophysics of Neutron Stars” Workshops, 2007-2009, Istanbul, Turkey

Organizer, “High Energy Astrophysics Workshop”, Summer School, 11 – 13 Sep 2006, Istanbul, Turkey.

Memberships

Turkish Astronomical Society (Former Executive Committee Member)

TÜBİTAK National Observatory, Academic Committee, 2012-2013

East Anatolian Observatory, Local Scientific Advisory Committee, since 2012

International Astronomical Union

American Astronomical Society, High Energy Astrophysics Division

AMSAT-TR, Turkish Amateur Satellite Technologies Organization

UNESCO National Committee on Astronomy (2008-2010).

SPIE 2008-2012

President of the Turkish Student Association at UCSD, 2001-2002.

Long term visits:

Honorary visiting scientist at JILA, University of Colorado, Boulder, CO, US, July 2014-2015
Visiting scientist at Leicester University, Leicester, England, September 1997, January 2007, May-June 2009
Visiting scientist at Danish Technical University – Space, Copenhagen, Denmark, 2008, 2010
Visiting scientist at CASS - UCSD, San Diego, US, June 2006.
Visiting scientist at Centre d'Etude Spatiale des Rayonnements, Toulouse, France, Oct. 2003
Visiting scientist at University of Tuebingen, Tuebingen, Germany in February and June 2001

Syncrotron Facility Experiments:

Diamond Light Source Facility, Didcot, UK, December 2009
European Synchrotron Research Facility, Grenoble, France, May 2010, June 2013

Accepted Grant Proposals:

TUBITAK 1003 Project (\$ 700,000), Package Leader, 2017, “Development of Cadmium Zinc Telluride Detector Systems for Medical Imaging Applications (γ CZT)”

TUBITAK 1001 Project (\$ 100,000), PI, 2017, “Developing original space-born x-ray detector systems using national resources and know-how”

TUBITAK 1001 Project (\$ 35,000), PI, 2016, “A Multifaceted Approach to Understand Emission Properties and the Geometry of Black Hole Binary Systems”

TUBITAK BIDEB 2219 (\$ 33,000), PI, 2014, “Investigation of the relation between the jets and state transitions in black holes with observations theory and simulations”

Sabancı University Internal Research Grant (\$ 18,000), PI, 2013, “BeEagleSAT, 2U Cubesat with CdZnTe X-ray Detector”.

European Commission FP 7 Initial Training Network, Co-I, 2010, (€ 2,5 Million overall), “Black Hole Universe”.

European Commission FP 6 Marie Curie International Reintegration Grant (€ 80,000), PI, 2005, "Data Mining with the INTEGRAL Observatory".

European Commission FP 6 Marie Curie Transfer of Knowledge (€ 1,100,000), Co-I, 2006, "Astrophysics of Neutron Stars" (responsible for astrophysical instrumentation).

Turkish Academy of Sciences (TUBA) GEBIP (\$ 25,000), PI, 2007

TUBITAK 1001 Project (\$60,000), PI, 2011, “Timing properties of galactic black hole transients as the compact jets turn on”.

TUBITAK EVRENA Project (\$160,000), PI, 2009, "Spaceborn X-ray detectors for astrophysics applications".

TUBITAK Career Award (\$60,000), PI, 2007, "Multiwavelength Observations of Black Holes".

Calspace mini-grant proposal (\$15,000), 2003, Co-I, "XRIP: The X-ray Imaging Polarimeter"

Refereed Journal Publications*:

1. "Wind, jet, hybrid corona and hard X-ray flares: multiwavelength evolution of GRO J1655-40 during the 2005 outburst rise", **Emrah Kalemci**, Mitchell C. Begelman, Thomas J. Maccarone, Tolga Dincer, Thomas D. Russell, Charles Bailyn, John A. Tomsick, MNRAS, 463, 615, 2016. C:4
2. "GRS 1739-278 observed at very low luminosity with XMM-Newton and NuSTAR", Felix Fuerst et al., ApJ, 832, 115 2016. C:0
3. "Spectral and timing evolution of the bright failed outburst of the transient black hole Swift J174510.8-262411", Melania del Santo et al., MNRAS, 456. 3585, 2016. C:3
4. "Optical and Near-Infrared Spectroscopy of the Black Hole Swift J1753.5-0127", Farid Rahoui et al., ApJ, 810, 161 2015 C:4
5. "The Accreting Black Hole Swift J1753.5–0127 from Radio to Hard X-Ray", John A. Tomsick et al., ApJ, 808, 85, 2015 C:7
6. "Complete multiwavelength evolution of Galactic black hole transients during outburst decay II: timing", Tolga Dinçer, **Emrah Kalemci**, Yoon Y. Chun, Michelle M. Buxton, Charles D. Bailyn, John A. Tomsick, ApJ, 795, 74, 2014 C:2
7. "Multiwavelength observations of Swift J1745-26", **Emrah Kalemci** et al., MNRAS, 445, 1288, 2014 C:4
8. "A Delayed Transition to the Hard State for 4U 1630-47 at the End of its 2010 Outburst", John. A. Tomsick, Kazutaka Yamaoka, Stephane Corbel, **Emrah Kalemci**, Simone Migliari, Phillip Kaaret, ApJ, Volume 791, p.70, 2014 C:6
9. "Complete multiwavelength evolution of Galactic black hole transients during outburst decay I: conditions for compact jet formation", **Emrah Kalemci**, Tolga Dinçer, Yoon Y. Chun, Michelle M. Buxton, Charles D. Bailyn, John A. Tomsick, Stephane Corbel, ApJ, Volume 779, p. 95, 2013 C:23
10. "Multiwavelength Observations of the Black Hole Transient XTE J1752-223 during its 2010 Outburst Decay", Yoon Young Chun, Tolga Dinçer, **Emrah Kalemci**, Tolga Güver, Michelle M. Buxton, Catherine Brocksopp, Stephane Corbel and Antonio Cabrera-Lavers, ApJ, Volume 770, p. 10, 2013. C:5
11. "Relations between X-Ray timing features and spectral parameters of Galactic black hole X-ray binaries", Holger Stiele, Tomaso M. Belloni, **Emrah Kalemci**, Sera Motta, MNRAS, Volume 429, Issue 3, p.2655, 2013. C:13
12. "Investigating the Optical Counterpart Candidates of Four INTEGRAL Sources localized with Chandra", Mehtap Ozbey Arabaci, **Emrah Kalemci**, John A. Tomsick, Jules Halpern, Arash Bodaghee, Sylvain Chaty, Jerome Rodriguez, Farid Rahoui, ApJ, 761, 4, 2012. C:0

13. "X-ray, Optical and Infrared Observations of GX 339-4 During Its 2011 Decay", Tolga Dinçer, **Emrah Kalemci**, Michelle M. Buxton, Charles D. Bailyn, John A. Tomsick, Stephane Corbel, ApJ, 753, 55, 2012 C:16
14. "Localizing INTEGRAL Sources with Chandra:X-Ray and Multi-Wavelength Identifications and Energy Spectra", John Tomsick, Arash Bodaghee, Sylvain Chaty, Jerome Rodriguez, Farid Rahoui, Jules Halpern, **Emrah Kalemci**, and Mehtap Ozbey Arabaci, ApJ, 754, 145, 2012 C:12
15. "Optical and Near-infrared Monitoring of the Black Hole X-Ray Binary GX 339-4 during 2002-2010", Michelle M. Buxton, Charles D. Bailyn, Holly L. Capello, Ritaban Chatterjee, Tolga Dinçer, **Emrah Kalemci**, John A. Tomsick, Astronomical Journal, Vol. 143, 130, 2012 C:26
16. "The Large Observatory for X-ray Timing (LOFT)", M. Feroci et al., Experimental Astronomy, 2011. C:139
17. "Truncation of the Inner Accretion Disk around a Black Hole at Low Luminosity", John Tomsick, Kazutaka Yamaoka, Stephane Corbel, Philip Kaaret, **Emrah Kalemci**, Simone Migliari, ApJ Letters, 707, L87-L91, 2009. C:65
18. "The infrared/X-ray correlation of GX 339-4: probing hard X-ray emission in accreting black holes", Mickael Coriat, Stephane Corbel, Michelle M. Buxton, Charles D. Bailyn, John A. Tomsick, Elmar K rding, **Emrah Kalemci**, MNRAS, 400, 123, 2009. C:64
19. "Search for redshifted 2.2 MeV neutron capture line from A0535+262 in outburst", Şirin  alıřkan, **Emrah Kalemci**, Matthew G. Baring, Steven E. Boggs, Peter Kretschmar, ApJ, 694, 593, 2009. C:0
20. "Identifications of five INTEGRAL sources through optical spectroscopy", Suzanne C. Butler, John A. Tomsick, Sylvain Chaty, Juan A. Z. Heras, Jerome Rodriguez, Roland Walter, Philip Kaaret, **Emrah Kalemci**, Mehtap  zbey, ApJ, 698, 502, 2009. C:15
21. "Hard X-Ray flux upper limits of central compact objects in supernova remnants", Iřıl Erdeve, **Emrah Kalemci**, M. Ali Alpar, ApJ, 696, 1796, 2009. C:3
22. "Broadband X-ray spectra of GX 339-4 and the geometry of accreting black holes in the hard state", John A. Tomsick, Phillip Kaaret, **Emrah Kalemci**, Sera Markoff, Stephane Corbel, Simone Migliari, Rob Fender, Charles Bailyn, Michelle Buxton, ApJ, Vol. 680, 593-601, 2008. C:54
23. "Hard X-ray emission of the microquasar GRO J1655-40 during the rise of its 2005 outburst", Angelique Joinet, **Emrah Kalemci**, Fabio Senziani, ApJ, Vol.679, 655-663, 2008. C:28
24. "Tracing the jet contribution to the mid-IR over the 2005 outburst of GRO J1655-40 via broadband spectral modeling", Simone Migliari, John A. Tomsick, Sera Markoff, **Emrah Kalemci**, Charles Bailyn, Michelle Buxton, Stephane Corbel, Rob Fender, Phil Kaaret, ApJ, Vol.670, 610-623, 2008. C:57
25. "Search for polarization from the prompt gamma-ray emission of GRB 041219a with SPI on INTEGRAL", **Emrah Kalemci**, Steven E. Boggs, Chryssa Kouveliotou, Mark H. Finger, Matthew Baring, ApJS, Vol.169, 75-82, 2007. C:69
26. "Hard X-ray emission of the microquasar GX 339-4 in the low/hard state", Angelique Joinet, Elizabeth Jourdain, Julien Malzac, Jean Pierre Roques, Stephane Corbel, Jerome Rodriguez, **Emrah Kalemci**, ApJ, Vol.657, 400-408, 2007. C:29

27. "Imaging extended sources with coded mask telescopes: application to the INTEGRAL IBIS/ISGRI instrument", Matthieu Renaud, Aleksandra Gros, Francois Lebrun, R. Terrier, A. Goldwurm, **Emrah Kalemci**, Stephen Reynolds, *Astronomy and Astrophysics*, Vol.456, No.1, 389-394, 2006. C:19
28. "X-Ray Observations of SN 1006 with INTEGRAL", **Emrah Kalemci**, Stephen Reynolds, Steven E. Boggs, Niels Lund, Jerome Chenevez, Matthieu Renaud, *J. Rho, ApJ*, Vol.644, 274-278, 2006. C:13
29. "The Inclination angle and mass of the black hole in XTE J1118+480", Dawn M. Gelino, Şölen Balman, **Emrah Kalemci**, Ümit Kızıloğlu, Arda Yılmaz, John A. Tomsick, *ApJ*, Vol.642, 438-442, 2006. C:60
30. "Searching for annihilation radiation from SN 1006 with SPI on INTEGRAL", **Emrah Kalemci**, Steven E. Boggs, Peter A. Milne, Stephen Reynolds, *ApJ Letters*, Vol.640, L55-L57, 2006. C:15
31. "The Galactic Black Hole transient H1743-322 during outburst decay: connections between timing noise, state transitions, and radio emission", **Emrah Kalemci**, John A. Tomsick, Richard E. Rothschild, Katja Pottschmidt, Stephane Corbel, Phil Kaaret, *ApJ*, Vol.639, 340-347, 2006. C:50
32. "Gamma-ray polarimetry of two X-class solar flares", Steven E. Boggs, Wayne Coburn, **Emrah Kalemci**, *ApJ*, Vol.638, 1129-1139, 2006. C:26
33. "Multi-wavelength observations of Galactic black hole transient 4U 1543-47 during outburst decay: state transitions and jet formation", **Emrah Kalemci**, John A. Tomsick, Michelle Buxton, Richard E. Rothschild, Katja Pottschmidt, Stephane Corbel, Catherine Brocksopp, Phil Kaaret, *ApJ*, 622, 508, 2005. C:71
34. "A close look at the state transitions of Galactic black hole transients during outburst decay", **Emrah Kalemci**, John A. Tomsick, Richard E. Rothschild, Katja Pottschmidt, Phil Kaaret, *ApJ*, 603, p231, 2004. C:44
35. "Detection of Low-Hard State Spectral and Timing Signatures from the Black Hole X-Ray Transient XTE J1650-500 at Low X-Ray Luminosities", John A. Tomsick, **Emrah Kalemci**, Phil Kaaret, *ApJ*, 601, p439, 2004. C:39
36. "An X-ray timing study of XTE J1550-564: evolution of the low frequency QPO for the complete 2000 outburst", Jerome Rodriguez, Stephane Corbel, **Emrah Kalemci**, John A. Tomsick, Michel Tagger, *ApJ*, 612, 1018, 2004. C:25
37. "X-ray temporal properties of XTE J1650-500 during outburst decay", **Emrah Kalemci**, John A. Tomsick, Richard E. Rothschild, Katja Pottschmidt, Stephane Corbel, Rudy Wijnands, Jon M. Miller, Phil Kaaret, *ApJ*, 586, p419, 2003. C:37
38. "X-Ray Flares and Oscillations from the Black Hole Candidate X-Ray Transient XTE J1650-500 at Low Luminosity", John A. Tomsick, **Emrah Kalemci**, Stephane Corbel, Phil Kaaret, *ApJ*, 592, p1100, 2003. C:22
39. "SPI instrumental background characteristics", Pierre Jean, et al., *A & A*, 411, p107, 2003. C:35
40. "Charge Sharing among the electrodes of a CdZnTe detector", **Emrah Kalemci**, James L. Matteson, *NIM-A*, 478/3, p529, 2002. C:20

41. "X-ray observations of XTE J1550-564 during the decay of the 2000 outburst. II. Timing", **Emrah Kalemci**, John A. Tomsick, Richard E. Rothschild, Katja Pottschmidt, Phil Kaaret, ApJ, 563, p239., 2001. C:27

42. "X-ray states and radio emission in the black hole candidate XTE J1550-564", Stephane Corbel et al., ApJ, 554, p43, 2001. C:106

White Papers

"X-ray and Gamma-ray Polarimetry", Mark McConnell et al., Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, no. 198, 2009. C:1

"The physics of accretion and ejection with LOFT", Piergiorgio Casella et al., LOFT White Papers, 2015 C:0

Conference Proceedings

1. "The LOFT mission concept: a status update", Feroci, M. et al., Proc. SPIE, 9905, 99051R, 2016 C:1

2. "Laboratory Performance of X-ray Detector on 2U CubeSat BeEagleSat", **Emrah Kalemci**, A. Rustem Aslan, M. Erdem Bas, M. Deniz Aksulu, M. Sevket Uludag, I. Eray Akyol, M. Ertan Umit, Ayhan Bozkurt, Proceedings of 66th IAC, Jerusalem, 12- 16 October, 2015 C:0

3. "A 3D CZT high resolution detector for x- and gamma-ray astronomy", Irfan Kuvvetli et al., Proc SPIE, 9154, 2014 C:2

4. "X-ray detector on 2U Cubesat BeEagleSAT of QB50", **Emrah Kalemci**, A. Rustem Aslan, Proceedings of RAST 2013, Istanbul, 12-14 June 2013 IEEE 899, 2013. C:0

5. "X-ray spectral and timing studies of black hole transients in the hard state at low luminosity", Tomsick, John A.; Kazutaka Yamaoka, **Emrah Kalemci**, Stéphane Corbel, Philip Kaaret, Simone Migliari, SUZAKU 2011: Exploring the X-ray Universe: Suzaku and Beyond. AIP Conference Proceedings, Volume 1427, pp. 316-317, 2012 C:0

6. "Reflection in Neutron Star and Black Hole Binaries", Tolga Dincer; Marat Gilfanov, **Emrah Kalemci**, ASTROPHYSICS OF NEUTRON STARS 2010: A Conference in Honor of M. Ali Alpar. AIP Conference Proceedings, Volume 1379, pp. 226-227, 2011 C:0

7. "High Energy Instrumentation Efforts in Turkey", **Emrah Kalemci**, ASTROPHYSICS OF NEUTRON STARS 2010: A Conference in Honor of M. Ali Alpar. AIP Conference Proceedings, Volume 1379, pp. 187-190, 2011 C:0

8. "Connections between jet formation and multiwavelength spectral evolution in black hole transients", **Emrah Kalemci**, Yoon-Young Chun, Tolga Dinçer, Michelle Buxton, John A. Tomsick, Stephane Corbel, Philip Kaaret, Jets at all Scales, Proceedings of the International Astronomical Union, IAU Symposium, Volume 275, p. 299-302, 2011 C:3

9. "Charge collection and depth sensing investigation on CZT drift strip detectors", Irfan Kuvvetli, Carl Budtz-Jorgensen, Ezio Caroli, Natalia Auricchio, **Emrah Kalemci**, John B. Stephen, Nuclear Science Symposium Conference Record (NSS/MIC), IEEE, p. 3880, 2010. C:1

10. "Yüksek enerji gökbilimi algılayıcıları (High energy Astrophysics Instrumentation)", **Emrah Kalemci**, Proceedings of the XVII. National Astronomy Congress, Adana, Turkey, 2010. C:0
11. "Galactic black holes in the hard state, a multiwavelength view of accretion and ejection", **Emrah Kalemci**, John A. Tomsick, Simone Migliari, Stephane Corbel, Sera Markoff, 2nd Kolkata Conference on Observational Evidence for Black Holes in the Universe, American Institute of Physics, 201-208, New York, USA, 2008. C:2
12. "Low/hard state of microquasars at low luminosities", Tolga Dinçer, **Emrah Kalemci**, John A. Tomsick, Michelle Buxton, 7th Microquasar Workshop, SISSA Proceedings of Science, 2008. C:1
13. "Watching the formation and evolution of compact jets from accreting black holes", John A. Tomsick, Simone Migliari, Sera Markoff, **Emrah Kalemci**, Charles Bailyn, Michelle Buxton, Stephane Corbel, Rob Fender, Phillip Kaaret A Population Explosion: The Nature & Evolution of X-ray Binaries in Diverse Environments American Institute of Physics 13-17 Melville, New York, 2008. C:0
14. "The inclination angle and mass of the black hole in XTE J1118+480", Dawn Gelino, Şölen Balman, Ümit Kızıloğlu, Yılmaz Arda, **Emrah Kalemci**, John A. Tomsick, A population explosion: the nature & evolution of x-ray binaries in diverse environments American Institute of Physics 82-84 Melville, N.Y., 2008. C:2
15. "Study of the High Energy Emission of GX339-4 and H1743-322 During State Transitions with INTEGRAL and RXTE", Anjelique Joinet, Elizabeth Jourdain, Julien Malzac, J. Pierre Roques, Stephane Corbel, Jerome Rodriguez, **Emrah Kalemci**, The 6th INTEGRAL Workshop, the Obscured Universe, ESA Special Publication SP 622, 361J, 2007. C:0
16. "Search for gravitationally redshifted 2.2 MeV line from 4U 1820-30", Şirin Çalışkan, **Emrah Kalemci**, Steven E. Boggs, The 6th INTEGRAL Workshop, the Obscured Universe, ESA Special Publication SP 622, 123C, 2007. C:0
17. "Polarization measurement of GRB 041219a with SPI", **Emrah Kalemci**, Steven E. Boggs, Chryssa Kouveliotou, Mark H. Finger, Matthew Baring, The 6th INTEGRAL Workshop, the Obscured Universe, ESA Special Publication SP 622, 127K, 2007. C:0
18. "State transitions and jet formation in black hole binaries", **Emrah Kalemci**, John A. Tomsick, Richard E. Rothschild, Katja Pottschmidt, 6th Microquasar Workshop: Microquasars and Beyond, SISSA Proceedings of Science, 2006. C:3
19. "The rise and fall of the compact jet in GRO J1655-40", Simone Migliari, John A. Tomsick, Sera Markoff, **Emrah Kalemci**, 6th Microquasar Workshop: Microquasars and Beyond, SISSA Proceedings of Science, 2006. C:0
20. "The effect of dust scattering on the timing properties of black holes", **Emrah Kalemci**, John A. Tomsick, Richard E. Rothschild, David Smith, 6th Microquasar Workshop: Microquasars and Beyond, SISSA Proceedings of Science., 2006. C:0
21. "Measuring Polarization with SPI on INTEGRAL", **Emrah Kalemci**, Steven E. Boggs, Cornelia B. Wunderer, Pierre Jean, Proceedings of the 5th INTEGRAL Workshop, Munich, Germany, ESA Special Publication SP 552, 859K, 2004. C:5
22. "Background in the Multiple Events (ME) of INTEGRAL/SPI", **Emrah Kalemci**, Steven E. Boggs, Cornelia B. Wunderer, Pierre Jean, Proceedings of the 5th INTEGRAL Workshop, Munich, Germany, ESA Special Publication SP 552, 855K, 2004. C:1

23. "A Preliminary Exposure-Map Based Comparison of SPI and RHESSI 26Al Flux Measurements", Cornelia B. Wunderer, Steven E. Boggs, **Emrah Kalemci**, David Smith, Karsten Kretschmer, Ronald Diehl, Dieter Hartmann, Proceedings of the 5th INTEGRAL Workshop, Munich, Germany, ESA Special Publication SP 552, 909W, 2004. C:0
24. "Transitions of black hole transients to the low-hard state under the microscope", **Emrah Kalemci**, John. A. Tomsick, Richard E. Rothschild, Katja Pottschmidt, Phillip Kaaret, Proceedings of X-ray Timing: Rossi and Beyond, ed. P. Kaaret, F. K. Lamb, & J. H. Swank (Melville, NY: American Institute of Physics), 2003. C:2
25. "The compact jet of the black hole candidate XTE J1550-564 during the 2000 X-ray outburst", Stephane Corbel et al., GAMMA 2001: Gamma-Ray Astrophysics 2001. AIP Conference Proceedings, Volume 587, pp. 126-130, 2001. C:1
26. "Performance of a prototype CdZnTe detector module for hard x-ray astrophysics", Kimberly R. Slavis et al., X-Ray and Gamma-Ray Instrumentation for Astronomy XI, Proc. SPIE Vol. 4140, p. 249-256, 2010. C:12
27. "Charge splitting among the electrodes of a CdZnTe detector", **Emrah Kalemci**, James L. Matteson, Hard X-Ray / Gamma-Ray and Neutron Optics, Sensors and Applications, Proc. SPIE 4141, p235, 2000. C:6
28. "Modelling of CdZnTe strip detectors", **Emrah Kalemci**, James L. Matteson, Thomas Skelton, Paul Hink, Kimberly R. Slavis, American Institute of Physics Conference Series, 510, 769-773, 2000. C:0
29. "Model calculations of the response of CZT strip detectors", **Emrah Kalemci**, James L. Matteson, Thomas. Skelton, Paul Hink, Kimberly R. Slavis, Hard X-Ray / Gamma-Ray and Neutron Optics, Sensors and Applications, Proc. SPIE 3768, p360, 1999. C:19

ATELs and IAU Circulars

1. "GRS 1758-258: Into the thermal dominant state with Swift XRT", Hirsch et al., ATEL #9890, 2016
2. "GRS 1758-258 not detected at hard X-rays", Pottschmidt, K. et al., ATEL #9625, 2016
3. "T100 Observations of V404 Cyg during quiescence", Guver, T., Gogus, E., Boztepe, T., Basaran, C. S., **Kalemci, E.**, ATEL #8509, 2016
4. "Optical observations of MAXI J1957+032", Guver, T., Ak, T., Urgup, H., Bilir, S., Kocak, M., **Kalemci, E.**, Gogus, E., Dincer, T., Kirbiyik, H., ATEL #8149, 2015
5. "SMARTS optical re-brightening of GX 339-4", Dincer, T.; Bailyn, C.; MacPherson, E.; **Kalemci, E.**, ATEL #7977, 2015
6. "Optical observations of J1023+0038", Guver, T.; Erece, O.; **Kalemci, E.**; Eksi, E. Gogus K. Y.; Kirbiyik, H., ATEL #6162, 2014
7. "Optical and X-ray re-brightening in Swift J1745-26", Russell, D. M.; Lewis, F.; Munoz-Darias, T.; **Kalemci, E.**, ATEL #5084, 2013
8. "Swift J174510.8-262411 in the hard intermediate state", Belloni, T. et al., ATEL #4450, 2012
9. "RXTE and Swift detect new activity from Aql X-1", Yamaoka, K.; Krimm, H. A.; Tomsick, J. A.; Kaaret, P.; **Kalemci, E.**; Corbel, S.; Migliari, S., ATEL #3686, 2011.

10. “*RTT-150 optical follow-up observations of SN2011fe (PTF11kly)*”, Khamitov, I. et al., ATEL #3620, 2011
11. “*IR brightening and possible appearance of the compact jet in XTE J1752-223 in the hard state*”, Buxton, M.; Dincer, Tolga; **Kalemci, Emrah**; Tomsick, John, ATEL #2549, 2010
12. “*Galactic Black Hole Transient H1743-322 in transition to the hard state*”, **E. Kalemci**, J. A Tomsick, S. Corbel, P. Kaaret, F. Grise, S. Migliari, ATEL # 2112, 2009.
13. “*Galactic black hole transient H1743-322 in transition to the hard state*”, **Kalemci, E.**, Tomsick, J. A., Corbel, S., Tzioumis, T., ATEL #1378, 2008.
14. “*Galactic black hole transients H1743-322 and 4U 1630-47 in outburst*”, **Kalemci, E.**, Tomsick, A. J., Yamaoka, K., Ueda, Y., ATEL # 1348, 2008.
15. “*Recurrent black hole transient GX 339-4 in transition to the hard state*”, **Kalemci, E.**, Tomsick, J. A., Migliari, S., Pottschmidt, K., Corbel, S., Buxton, M., Bailyn, C., Kaaret, P.; Belloni, T., ATEL #1074, 2007.
16. “*H 1743-322 (=IGR J17464-3213) Transition to the Hard State*”, J. A. Tomsick, **E. Kalemci**, ATEL # 198, 2003.
17. “*State Transition of GX 339-4*”, D. M. Smith, **E. Kalemci**, J.A. Tomsick, W. A. Heindl, ATEL # 120, 2003.
18. “*State Transition of the Black Hole Candidate 4U 1543-47*”, **E. Kalemci**, J.A. Tomsick, R. Rothschild, S. Corbel, P. Kaaret, J. McClintock, ATEL # 103, 2002.
19. “*GX 339-4*”, D. M. Smith et al., IAUC # 7912, 2002.
20. “*XTE J1650-500*”, J.A. Tomsick, **E. Kalemci**, S. Corbel, P. Kaaret, IAUC # 7837, 2002.

***According to Astrophysical Data System, as of Mar 21, 2017, the total number of citations to all of my publications is 1427. For refereed publications, my H index is 21.**

Conference and workshop presentations and posters

1. “Winds and high energy flares in GRO J1655-40”, presentation at “High Throughput X-ray Astronomy in the eXTP era”, Rome, Italy, 6-7 Feb 2017
2. “Spectral State Transitions in Black Hole Transients”, invited review at the 20. National Astronomical Congress, Erzurum, Turkey 5-9 Sep 2016.
3. “Spectral State Transitions in X-ray Binaries”, invited review at the Stellar Remnants at the Junction, Junction, TX, USA, 2-6 May 2016.
4. “Laboratory Performance of X-ray Detector on 2U CubeSat BeEagleSat”, presentation at 66th IAC, Jerusalem, Israel, 12-16 Oct, 2015.
5. “X-ray detector on 2U Cubesat BeEagleSAT of QB50”, presentation at RAST 2013, Istanbul, Turkey, 12-14 Jun 2013.

6. "The X-ray detector on BeEagleSAT", presentation at Cubesat2013 Symposium, Brussels, Belgium, 3-5 Jun 2013.
7. "Complete Multiwavelength Evolution of Black Hole Transients During Outburst Decay: Conditions for Jet Formation", presentation at Half a Century of X-ray Astronomy Conference, Mykonos, Greece, 17-21 Sep 2012.
8. "Multi-wavelength observations of black hole transients during outburst decay", presentation at Black Holes by the Black Sea Workshop, Koc University, Istanbul, Turkey, 25-29 Jun 2012.
9. "X-ray timing of black hole transients as the compact jet turns on", presentation at the LOFT Science Meeting, Amsterdam, the Netherlands, 26-28 Oct 2011.
10. "Yüksek enerji gökbilimi algılayıcıları (High energy Astrophysics Instrumentation)", invited talk at the XVII. National Astronomy Congress, Adana, Turkey, 31 Aug 2010.
11. "Temporal analysis of black holes with disk inner radii determined through iron line features", presentation at the Probing Strong Gravity Near the Black Holes, Prague, Czech Republic, 15-18 February 2010.
12. "Galactic black holes in the hard state, a multiwavelength view of accretion and ejection", presentation at 2nd Kolkata Conference on Observational Evidence for Black Holes in the Universe, Kolkata, India, 10-15 February 2008.
13. "An Evolutionary View Of State Transitions And Jets In Black Hole Transients During Outburst Decay", presentation at 2008 HEAD Meeting, Los Angeles, CA. USA, Apr 2008.
14. "Small astrophysical X-ray monitor payload for earth observing satellites", presentation at Small Satellites, New Missions, New Technologies Workshop, ASTIN Harbiye Military Museum, Istanbul, Turkey, 5-7 Jun 2008.
15. "High energy astrophysics instrumentation efforts in Turkey based on semiconductor detectors", presentation at the Astrophysics of Neutron Stars 2008, Sabancı University, İstanbul, Turkey, 1-4 Jul 2008.
16. "Future X- and Gamma-ray missions", presentation at the Astrophysics of Neutron Stars 2007 Workshop, Istanbul, Turkey, Jul 2007.
17. "Polarization measurement of GRB 041219a with SPI", presentation at the 6th INTEGRAL Workshop, the Obscured Universe, Moscow, Russia, 2-8 Jul 2006.
18. "State transitions and jet formation in black hole binaries", presentation at the 6th Microquasar Workshop: Microquasars and Beyond, Como, Italy, 18-22 Sep 2006.
19. "The effect of dust scattering on the timing properties of black holes", poster at the 6th Microquasar Workshop: Microquasars and Beyond, Como, Italy, 18-22 Sep 2006.
20. "INTEGRAL observations of SN 1006", Internal INTEGRAL Science Workshop at ESTEC, Noordwijk, Netherlands, 18-21 Jan 2005.
21. "Multi-wavelength observations of 4U 1543-47: state transitions and jet contribution", poster at the AAS HEAD Meeting, New Orleans, LA, USA 8-11 Sep 2004.
22. "Measuring Polarization with SPI on INTEGRAL", poster at the 5th INTEGRAL Workshop, Munich, Germany, 16-20 Feb 2004.

23. "Transitions of black hole transients to the low-hard state under the microscope", presentation at X-ray Timing: Rossi and Beyond, Boston, MA, USA 3-5 Nov 2003.
24. "Temporal Studies of Black Hole X-ray Transients During Outburst Decay", thesis presentation at the AAS HEAD meeting, Mnt. Tremblant, Canada, 23-26 Mar 2003.
25. "State transition of the new black hole transient XTE J1650-500 during outburst decay", poster at the 2nd ITP Conference on Black Holes, Santa Barbara, CA, USA, 25-28 Feb 2002.
26. "Discovery of a 65 Hz QPO and possible inner radius retreat in XTE J1550-564 during outburst decay", poster at the 198th meeting of the AAS, Pasadena, CA, USA, 3-7 Jun 2001.
27. "A study of low-frequency quasi-periodic-oscillations from XTE J1550-564 up to 120 keV", poster at the HEAD meeting, Honolulu, HI, USA, 6-10 Nov 2000.
28. "Charge splitting among the electrodes of a CdZnTe detector", presentation at the SPIE Hard X-Ray / Gamma-Ray and Neutron Optics, Sensors and Applications, San Diego, CA, USA, Jul 2000.
29. "Modelling of CdZnTe strip X-ray detectors", **E. Kalemci**, J. L. Matteson, T. Skelton, P. Hink, K. R. Slavis, presentation at the Space Astrophysics Detectors and Detector Technologies, Baltimore, MD, USA, 26-29 Jun 2000.
30. "Modelling of CdZnTe strip detectors", poster at the Fifth Compton Symposium, Portsmouth, NH, USA, 15-17 Sep 1999.
31. "Model calculations of the response of CZT strip detectors", presentation at the SPIE Hard X-Ray / Gamma-Ray and Neutron Optics, Sensors and Applications, Denver, CO, USA, Jul 1999.

Seminars and Colloquia

1. "Science with CubeSats, a step towards (Turkish) scientific payloads in space", Istanbul University, Astronomy Department, Istanbul, Turkey, 09 Mar 2017, colloquium
2. "State transitions in Galactic black hole binary systems", Istanbul Technical University, Physics Engineering Department, Istanbul, Turkey, 28 Feb 2017, colloquium
3. "The X-ray detector on BeEagleSat, the end result of CdZnTe strip geometry optimization", Stanford Molecular Imaging Instrumentation Laboratory, Palo Alto, CA, USA, 27 Apr 2016, seminar
4. "Science with CubeSats, a step towards (Turkish) scientific payloads in space", Middle East Technical University, Physics Department, Ankara, Turkey, 14 Apr 2016, colloquium
5. "Part 1: Multiwavelength observations of Galactic Black Hole Transients to understand formation of Jets / Part 2: The first Turkish X-ray detector on a cubesat", Bogazici University Physics Department, Istanbul, Turkey, 24 Feb 2016, colloquium
6. "Multiwavelength evolution of galactic black hole transients during the outburst rise and decay", Center for Astrophysics, Harvard, Boston, MA, USA, 26 Jun 2015, seminar
7. "Multiwavelength evolution of galactic black hole transients during the outburst rise and decay", MIT Kavli Institute for Astrophysics and Space Research, Boston, MA, USA 25 Jun 25 2015, seminar.

8. "Black hole transients during outburst decays, compact jets and X-ray timing", Astronomy Department, Yale University, New Haven, CT, USA 8 May 2015, seminar.
9. "Galactic black hole transients during outburst decays; formation of compact jets and jet / X-ray timing relation", Dept. of Astronomy & Physics, Un. of Florida, Gainesville, FL, USA, 4 Feb 2015, colloquium
10. "Black hole transients during outburst decays, compact jets and X-ray timing", Space Sciences Laboratory, UC Berkeley, CA, USA, 22 Dec 2014, seminar.
11. "Black hole transients during outburst decays, compact jets and X-ray timing", Department of Astrophysical and Planetary Sciences (APS), CU Boulder, CO, USA, 10 Oct 2014, seminar.
12. "Development and in-orbit testing of an X-ray detector on BeEagleSAT, a 2U CubeSat", Laboratory for Atmospheric and Space Physics (LASP), CU Boulder, CO, USA, 2 Oct 2014, colloquium.
13. "Black hole transients during outburst decays, compact jets and X-ray timing", Department of Physics, Texas Tech University, Lubbock, TX, USA, 26 Sep 2014, colloquium.
14. "Semiconductor based X-ray detector systems for small satellites and Complete Multiwavelength Evolution of Black Hole Transients During Outburst Decay: Conditions for Jet Formation ", NASA Goddard Space Flight Center, Greenbelt, MD, USA, 15 Feb 2013, invited talk.
15. "Complete Multiwavelength Evolution of Black Hole Transients During Outburst Decay: Conditions for Jet Formation AND CdZnTe semiconductor detector development efforts at Sabanci University ", METU Physics Department, Ankara, Turkey, 7 Mar 2013, colloquium
16. "Complete Multiwavelength Evolution of Black Hole Transients During Outburst Decay: Conditions for Jet Formation ", Un. of Grenoble, Grenoble, France, 25 Jun 2013, seminar
17. "Complete Multiwavelength Evolution of Black Hole Transients During Outburst Decay: Conditions for Jet Formation ", DTU-Space, Lyngby, Denmark, 1 Jul 2013, seminar
18. "Understanding accretion geometry around black holes using multi-wavelength observations" Bilkent University, Ankara, Turkey, 03 Feb 2010, colloquium
19. "Space astronomy and x-ray detectors for high energy astrophysics", Tubitak Space, Ankara, Turkey, 6 Nov 2009, seminar
20. "Understanding accretion geometry around black holes using multi-wavelength observations" Koç University, Istanbul, Turkey, 05 Nov 2009, colloquium
21. "Polarization measurement of GRB 041219a with SPI", Space Research Center, Leicester University, Leicester, UK, Jan 2007, colloquium
22. "SPI related activities at Sabanci University", SPI Science Team Meeting, MPE, Munich, Germany, Apr 2007, seminar

23. "High Energy Astrophysics in Turkey", Danish National Space Center, Copenhagen, Denmark, Jun 2007, seminar
24. "Polarization measurement of GRB 041219a with SPI, the end", SPI Science Team Meeting, CCSR, Toulouse, France, October 2006, seminar
25. "Space Instrumentation for Astrophysics", Nanotechnology Center, Bilkent University, Ankara, Turkey, Oct 2006, colloquium
26. "Polarization measurement of GRB 041219a with SPI", SPI Science Team Meeting, Oct 2005, CCSR, Toulouse, France, seminar
27. "Polarization measurement of GRB 041219a with SPI", Gamma-ray polarization mini-workshop, MPE, Garching, Germany, Dec 2005 seminar
28. "Background in the multiple events of SPI/INTEGRAL", Gamma-ray polarization mini workshop, MPE, Garching, Germany, Dec 2005, seminar

Accepted Observing Proposals:

1. CHANDRA AO18, "Dust scattering halo of the peculiar black hole binary 4U 1630-47", **Kalemci E.**, Maccarone T., Tomsick J., Gogus E., 40ks
- 2-3. INTEGRAL AO13, AO14, "High energy emission from Galactic black hole transients when the compact jet turns on", **Kalemci E.**, J. A. Tomsick, K. Pottschmidt, J. Wilms, T. Belloni, C. Bailyn, 340 ks.
- 4-9. INTEGRAL AO8-AO11, AO13, AO14, "A multi-wavelength campaign to observe a bright black hole transient in transition", Belloni T. et al. 1000 ks.
10. INTEGRAL AO14, "Broad band spectroscopy of GRS 1758-258 in its rare soft state: TOO Observations" Hirsch et al. 170 ks.
11. XMM-Newton, AO15, "The Black Hole Transient 4U 1630-47 in the Low-Soft State", PI. Tomsick, J., 42ks
- 12-13. XMM-Newton + NuSTAR, AO14, AO15 "The accretion geometry in a black hole binary at very low luminosities", PI. Fürst, F., 80ks XMM + 40 ks NuSTAR
14. Sardinia Radio Telescope, "Monitoring of neutron star and black hole X-ray binaries with the SRT", 120 hrs
- 15-19. INTEGRAL, AO7-AO11, "Constraining spectral breaks in Galactic black hole transients in the hard state", **Kalemci E.**, J. A. Tomsick, K. Pottschmidt, J. Wilms, T. Belloni, S. Corbel, M. Buxton, 300 ks.
- 20-22. SWIFT, AO9-AO11, "Black Hole Transients During Outburst Decay", PI. Tomsick, J.
23. SWIFT, AO8, "Black Hole Transients in the Hard State During Outburst Decay", PI. Tomsick, J.
24. SWIFT, AO7, "X- and Gamma Ray emission from galactic black hole transients when the compact jet turns on", PI. **Kalemci, E.**

25. RXTE, AO-14, 300ks, "X- and Gamma Ray emission from galactic black hole transients when the compact jet turns on", PI: **Kalemci, E.**
- 26-27. XMM-Newton AO-7 and AO-8, "Constraining the Hard State Accretion Geometry for Black Hole Binaries", Tomsick, J., **Kalemci, E.**, Kaaret, P., Migliari, S., Corbel, S.
- 28-30. SWIFT AO-3, AO-4 and AO-5 "Compact Jets from Galactic Black Holes", Tomsick, J., Migliari, S., Markoff, S., Bailyn, C., Corbel, S., Fender, R., **Kalemci, E.**, Kaaret, P.
- 31-36. SUZAKU AO3-AO8, "Constraining Models for the Black Hole Accretion in the Hard State", Tomsick, J., Kaaret, P., **Kalemci, E.**, Migliari, S., Corbel, S.
37. INTEGRAL AO-4, 1Ms (Key Programme), "Search for the neutron-capture gamma-ray lines from 4U 1820 -30 ", Boggs, S. E., **Kalemci, E.**, Caliskan, S., Bildsten L.
- 38-40. INTEGRAL AO-4, AO-5 and AO-6, 1Ms (Key Programme), "Monitoring the peculiar persistent LMXB GRS 1758-258", PI: Pottschmidt K.
41. XMM AO-5, 20 ks, "Understanding the nature of Seyfert 2 Galaxy VV 780-IC4518", **Kalemci, E.**, Tomsick, J.A, Rothschild, R. A, Boggs, S. E., Fossati, G.
- 42-45. RXTE AO-10, AO-11, AO-12, AO-13, 462 ks, "Multi-Wavelength Observations of Black Hole X-Ray Transients During Outburst Decay", Tomsick, J.A, **Kalemci, E.**, Corbel, S., Kaaret, P.
- 46-47. SPITZER Cycles-2 and 3, 12 hrs, "Compact Jets from Galactic Black Holes", PI: Tomsick, J. A.
48. Turkish National Observatory, 150 cm, "TOO Observation of a black hole binary in outburst", **Kalemci, E.**, Göğüş, E., Tomsick, J.A. (accepted since 2006, never triggered)
- 49-51. Turkish National Observatory, 150 cm, 2 nights, "Optical observations of IGR sources", **Kalemci, E.**, Tomsick, J.A., Gogus, E., Kiziloglu, U. (3 set of observations have been done since 2007)
52. INTEGRAL AO-3, 2.5 Ms, "Detecting Positron Annihilation Radiation and Hard X-ray Emission from Type Ia Supernova Remnants", PI: Milne, P.
53. XMM AO-4, 20 ks, "Simultaneous XMM-Newton - RXTE observations of 1E1740.7-2942", **Kalemci, E.**, Tomsick, J.A, Rothschild, R. A., Smith, D. M.
54. RXTE AO-10, 15 ks, "Simultaneous XMM - RXTE observations to investigate the effect of scattering halo in timing properties of black holes", **Kalemci, E.**, Tomsick, J.A, Rothschild, R. A.
- 55-56. RXTE AO-9, AO-10, 462 ks, "Multi-Wavelength Observations of Black Hole X-Ray Transients During Outburst Decay", Tomsick, J.A, **Kalemci, E.**, Corbel, S., Kaaret, P.
57. SPITZER Cycle-1, 12 hrs, "Compact Jets from Galactic Black Holes", PI: Tomsick, J. A.
- 58-59. INTEGRAL AO-2, AO-3, 1 GRB, "Polarization measurements of prompt Gamma-ray and X-ray emission in Gamma-ray bursts (and SGR flares) with INTEGRAL", PI: Kouvelitou, C.
60. RXTE AO-8, 362 ks, "Multi-Wavelength Observations of Black Hole X-Ray Transients During Outburst Decay", Tomsick, J.A, **Kalemci, E.**, Corbel, S., Kaaret, P.

61. RXTE AO-7, 180 ks, "High Frequency QPO Search and Multi-Wavelength Observations of Black Hole X-ray Transients During Outburst Decay", **Kalemci, E.**, Tomsick, J.A, Rothschild, R.E, Corbel, S., Kaaret, P.
62. RXTE AO-7, 300 ks, "Black Hole X-ray Transients During Outburst Decay", Tomsick, J.A., Kaaret, P., **Kalemci, E.**
63. RXTE AO-6, 160 ks, "Multi-Wavelength Observations of Black Hole Candidate X-ray Transients During Outburst Decay", Tomsick, J.A., Kaaret, P., Corbel, S., **Kalemci, E.**
64. Turkish National Observatory, 150 cm, 1.5 night, "Mass Measurement of the Black Hole Candidate SXT, XTE J1118+480", Balman, S., Kiziloglu, U., Gelino, D., **Kalemci, E.**, Tomsick, J.A.
65. Turkish National Observatory, 150 cm, 1.5 night, "TOO Observation of a black hole binary in outburst", Gogus, E., **Kalemci, E.**, Tomsick, J.A.
- 66-67. Turkish National Observatory, 100 cm, 15 nights, "TOO Observation of a black hole binary in outburst", **Kalemci, E.**, M. Özbey, T. Güver.