

List of scientific discourses by J.S. Kaastra

April 20, 2018

1. J.S. Kaastra: *A five finger theory for solar flares*, Leiden, 24 October 1985.
2. J.S. Kaastra: *An analytical model for solar flare development*, Toulouse, France, 2 July 1986.
3. J.S. Kaastra: *Rapid X-ray variations in the high luminosity Seyfert galaxy III Zw 2*, Villa Olmo, Como, Italy, 21 October 1986.
4. J.S. Kaastra: *Rapid X-ray variations in Seyfert galaxies*, Astronomical Institute Anton Pannekoek, University of Amsterdam, 7 November 1986.
5. J.S. Kaastra: *Rapid X-ray variations in Seyfert galaxies*, Sterrewacht, Utrecht, 11 November 1986.
6. J.S. Kaastra: *Rapid X-ray variability in III Zw 2*, Leicester, England, 1 July 1987.
7. J.S. Kaastra: *X-ray variability of AGN*, Leiden, 4 March 1988.
8. J.S. Kaastra: *Hard X-ray variability and the accretion disk corona in NGC 5548*, Meudon, France, 1 June 1988.
9. J.S. Kaastra: *On the theory of Active Galactic Nuclei*, Schloss Ringberg, F.R.G., 20 September 1988.
10. J.S. Kaastra: *X-rays from Active Galactic Nuclei*, Leiden, 8 June 1989.
11. J.S. Kaastra: *X-ray variability of NGC 5548*, Nagoya, Japan, 15 October 1989.
12. J.S. Kaastra: *Studies of AGN's with GRO-Comptel*, Leiden, 23 November 1989.
13. J.S. Kaastra: *Ginga observations of X-ray variability in the broad line radio galaxy 3C 382*, Atlanta, Georgia, U.S.A., 3 May 1990.
14. J.S. Kaastra: *X-ray variability and Iron line emission in 3C 382*, Oostkapelle, Netherlands, 12 May 1990.
15. J.S. Kaastra: *Line spectroscopy in Supernova Remnants*, Varenna, Italy, 9 October 1990.
16. J.S. Kaastra: *X-ray emission from active galactic nuclei*, Amsterdam, 17 April 1991.
17. J.S. Kaastra: *X-ray spectroscopy of supernova remnants*, Nagoya, Japan, 30 April 1991.
18. J.S. Kaastra: *X-ray modelling of supernova remnants*, Windsor, England, 25 June 1991.
19. J.S. Kaastra: *Studies and prospects of studies of supernova remnants*, Utrecht, 11 October 1991.
20. J.S. Kaastra: *X-ray observations of RCW 86*, Utrecht, 13 October 1992.

21. J.S. Kaastra: *X-ray observations of RCW 86*, NASA, Greenbelt, Maryland, 20 November 1992.
22. J.S. Kaastra: *X-ray spectroscopy of hot thermal plasmas*, Lockheed Research Lab, Palo Alto, California, 29 June 1993.
23. J.S. Kaastra: *Modelling of X-ray and EUVE radiation from hot thermal plasmas*, Center for EUV astrophysics, Berkeley, California, 30 June 1993.
24. J.S. Kaastra: *Massive binary black holes in galactic nuclei*, Colloquium Ehrenfestii, Leiden, 12 January 1994.
25. J.S. Kaastra: *The Mewe et al. plasma code*, HEAD meeting, Napa, California, 4 November 1994.
26. J.S. Kaastra: *Line emission from warm material in NGC 5548*, IAU Colloquium 152, Berkeley, California, 27 March 1995.
27. J.S. Kaastra: *X-ray diagnostics of supernova remnants*, Eleventh colloquium on UV and X-ray spectroscopy of astrophysical and laboratory plasmas (invited talk), Nagoya, 29 May 1995.
28. J.S. Kaastra: *X-ray emission from hot astrophysical plasmas*, invited lecture, Nagoya University, Nagoya, 7 June 1995.
29. J.S. Kaastra: *High resolution X-ray spectroscopy with the low energy transmission grating of AXAF*, HEAD Division of the AAS, San Diego, 3 May 1996.
30. J.S. Kaastra: *EUUV/X-ray variability in NGC 5548*, 52e Nederlandse Astronomen Conferentie, Dalfsen, May 15, 1997.
31. J.S. Kaastra: *Astrophysical plasmas and atomic processes*, IAU Symposium 188 *The hot universe*, Kyoto, Japan, 27 August 1997.
32. J.S. Kaastra: *X-ray spectroscopic observations with ASCA and SAX*, invited lectures, 10th EADN school, Amsterdam, September 1997.
33. J.S. Kaastra: *Spatially resolved spectroscopy of A 2199*, Symposium *The active X-ray sky: results from BeppoSAX and RossiXTE*, October 24, 1997, Rome, Italy.
34. J.S. Kaastra: *Soft X-ray spectrum of NGC 5548*, October 1997, Monte Porzio, Italy.
35. J.S. Kaastra: *X-ray observations of clusters of galaxies*, 16 June 1998, SRON Science days, Dalfsen, Netherlands.
36. J.S. Kaastra: *Thermal and non-thermal emission from clusters*, (invited review), 32nd Cospar conference, Nagoya, Japan, 13 July 1998.
37. J.S. Kaastra: *Non-thermal features in broad band X-ray spectra of galactic supernova remnants*, 32nd Cospar conference, Nagoya, Japan, 13 July 1998.
38. J.S. Kaastra: *The Mewe et al. Plasma code*, NASA workshop on Atomic Data Needs for X-ray Astronomy, Greenbelt, Maryland, 17 December 1999.
39. J.S. Kaastra: *First spectroscopy results from the Chandra X-ray Observatory*, Utrecht, 9 February 2000.

40. J.S. Kaastra: *First spectroscopic results of Chandra*, Nederlandse Astronomen Club, Amsterdam, 6 March 2000.
41. J.S. Kaastra: *X-ray spectroscopy of Active Galactic Nuclei*, Symposium *A new decade of cosmic X-ray spectroscopy*, Utrecht, 7 July 2000.
42. F.B.S. Paerels, J.S. Kaastra: *X-ray spectroscopy of clusters of galaxies*, Symposium *A new decade of cosmic X-ray spectroscopy*, Utrecht, 7 July 2000.
43. J.S. Kaastra: *Spectroscopic Studies of AGN*, 18 July 2000, 33rd Cospar conference, Warsaw, Poland, July 2000.
44. J.S. Kaastra: *X-ray spectroscopy of clusters of galaxies with XMM*, X-ray astronomy 2000, Mondello, Italy, 6 September 2000.
45. J.S. Kaastra: *High-resolution X-ray spectroscopy with Chandra and XMM-Newton: a new view on active galactic nuclei*, University of Alabama, Huntsville, Alabama, 13 November 2000.
46. J.S. Kaastra: *X-ray observations of AGN*, The Challenge of High Resolution X-Ray through IR Spectroscopy of Photoionized Plasmas, University of Kentucky, Lexington, 17 November 2000
47. J.S. Kaastra: *High-resolution X-ray spectroscopy with Chandra and XMM-Newton: a new view on active galactic nuclei*, Kapteyn Instituut, Groningen, 2 february 2001
48. J.S. Kaastra: *Cooling flow spectra of clusters of galaxies as observed by XMM-Newton*, RAS meeting, London, 9 February 2001
49. J.S. Kaastra: *High-resolution X-ray spectroscopy of the warm gas in Seyfert 1 galaxies*, Mass Outflow in Active Galactic Nuclei: New Perspectives, The Catholic University of America, Washington, DC, 8 March 2001
50. J.S. Kaastra: *The Accretion Disk Continuum Spectrum of NGC 4593*, workshop X-ray emission from accretion onto black holes, Johns Hopkins University, Baltimore, 22 June 2001
51. J.S. Kaastra: *Spatially resolved spectroscopy of clusters of galaxies*, New Visions of the X-ray Universe in the XMM-Newton and Chandra era, ESTEC, Noordwijk, 26 November 2001
52. J.S. Kaastra: *SPEX*, New Visions of the X-ray Universe in the XMM-Newton and Chandra era, ESTEC, Noordwijk, 28 November 2001
53. J.S. Kaastra: *LETGS and RGS observations of the Seyfert 1 galaxies NGC 5548 and NGC 4593*, Workshop on X-ray spectroscopy of active galactic nuclei with Chandra and XMM-Newton, Garching, Germany, 3 December 2001
54. J.S. Kaastra: *Clusters with XMM*, 2nd CMBNet General Meeting, Monte Porzio Catone, Italy, 14 December 2001.
55. J.S. Kaastra: *Recent highlights of extragalactic X-ray spectroscopy with XMM-Newton and Chandra*, Colloquium, University of Zurich, Swiss, 30 January 2002
56. J.S. Kaastra: *XMM-Newton observations of clusters of galaxies*, Colloquium, University of Alabama at Huntsville, Huntsville, Alabama, USA, 12 February 2002

57. J.S. Kaastra: *High resolution spectroscopy of nearby AGN, XEUS - studying the evolution of the hot Universe*, International Workshop at MPE, Garching, Germany, 12 March 2002
58. J.S. Kaastra: *High resolution X-ray spectroscopy of AGN: mapping the black hole environment*, Colloquium, Leiden, 21 March 2002
59. J.S. Kaastra: *Clusters of galaxies*, SRON Wetenschapsdagen, Dalfsen, 13 June 2002
60. J.S. Kaastra: *XMM-Newton study of soft excess X-ray emission in clusters of galaxies*, Cospar, Houston, Texas, USA, 10 October 2002
61. J.S. Kaastra: *XMM-Newton RGS observations of clusters of galaxies*, workshop on high resolution X-ray spectroscopy with XMM-Newton and Chandra, Mullard Space Science Laboratory, Holmbury St Mary, Dorking, Surrey, UK, 25 October 2002
62. J.S. Kaastra: *XMM discovery of O VII emission in three clusters of galaxies*, Soft X-ray emission from clusters of galaxies and related phenomena, Huntsville, Alabama, 11 December 2002
63. J.S. Kaastra: *Observing the warm/hot IGM with XEUS*, Soft X-ray emission from clusters of galaxies and related phenomena, Huntsville, Alabama, 13 December 2002
64. J.S. Kaastra: *XMM-Newton Discovery of the Warm and Hot Intergalactic Medium*, Groningen, 3 March 2003
65. J.S. Kaastra: *Soft X-ray spectroscopy*, workshop X-rays from the solar system, Leiden, 7 April 2003
66. J.S. Kaastra: *XMM-Newton Discovery of the Warm and Hot Intergalactic Medium*, Amsterdam, Nederlandse Natuurkundige Vereniging, 25 April 2003
67. J.S. Kaastra: *The circumsource environment in AGNs*, First Constellation-X workshop, Columbia University, New York, USA, 5 May 2003
68. J.S. Kaastra: *XMM-Newton observations of the temperature structure of the central gas in cooling clusters*, Cooling flows in galaxies and clusters of galaxies, Charlottesville, Virginia, USA, 3 June 2003
69. J.S. Kaastra: *Cooling flows*, SRON Wetenschapsdagen, Dalfsen, 12 June 2003
70. J.S. Kaastra: *New results on X-ray models and atomic data*, IAU JD 17, Sydney, Australia, 22 July 2003
71. J.S. Kaastra: *XMM-Newton discovery of the Warm and Hot Intergalactic Medium*, Mullard Space Sciences Laboratory, England, 1 September 2003.
72. J.S. Kaastra: *The X-ray and UV ionized absorbers in Mrk 279*, Symposium Four Years of Chandra Observations, Huntsville, Alabama, USA, 18 September 2003
73. J.S. Kaastra: *X-ray detection of the Warm-Hot Intergalactic Medium*, University of Toronto, Toronto, 10 October 2003
74. J.S. Kaastra: *Extragalactic X-ray spectroscopy*, SRON/SIU meeting, Zeist, 28 November 2003
75. J.S. Kaastra: *XMM observations of the warm IGM in clusters*, cluster workshop, Dwingeloo, 3 December 2003

76. J.S. Kaastra: *X-ray spectroscopy of SNR*, ISSI workshop on SNR, Bern, 12 December 2003
77. J.S. Kaastra, J.A.M. Bleeker: *Synoptic X-ray spectral study of the SMC SNRs using XMM-Newton*, ISSI workshop on SNR, Bern, 12 December 2003
78. J.S. Kaastra: *High-resolution X-ray spectroscopy of AGN outflows*, workshop The structure and composition of Active Galactic Nuclei: Optical interferometry and adaptive optics of NGC 1068, Leiden, 12 January 2004
79. J.S. Kaastra: *The warm/hot intergalactic medium*, IAU Colloquium 195, Outskirts of galaxy clusters: intense life in the suburbs, Torino, 12 March 2004
80. J.S. Kaastra: *Chandra high-resolution X-ray spectroscopy of Seyfert 1 galaxies*, American Astronomical Society Meeting 204, Denver, Colorado, USA, 2 June 2004
81. J.S. Kaastra: *X-ray spectroscopy of clusters of galaxies using XMM-Newton*, Symposium Exploring the X-ray Universe, Mullard Space Sciences Laboratory, England, 23 June 2004.
82. J.S. Kaastra: *Density diagnostics in AGN using O V K-shell absorption lines*, Symposium E1.9 Contributions of X-ray and EUV Spectroscopy to Solar Physics and Astrophysics, 35th COSPAR Scientific Assembly, Paris, France, 19 July 2004.
83. J.S. Kaastra: *The warm intergalactic medium*, Symposium E1.2 Clusters of Galaxies: New Insights from XMM-Newton, Chandra and INTEGRAL, 35th COSPAR Scientific Assembly, Paris, France, 20 July 2004.
84. J.S. Kaastra: *X-ray emission from the warm-hot intergalactic medium*, International Conference on Cosmic Rays and Magnetic Fields in Large Scale Structure, 3rd Korean Astrophysics Workshop, Pusan, Korea, 17 August 2004.
85. J.S. Kaastra: *Constraining the ionisation structure of AGN outflows through X-ray spectroscopy*, Workshop on "AGN - Tori and Winds", Leicester, England, 16 September 2004.
86. J.S. Kaastra: *Atomic data needs for X-ray spectroscopy of photoionized plasmas*, Joint Meeting 14th International Toki Conference on Plasma Physics and Controlled Nuclear Fusion and 4th International Conference on Atomic and Molecular Data and Their Applications, Toki, Japan, 6 October 2004.
87. J.S. Kaastra: *XMM-Newton observations of clusters of galaxies*, Nagoya University, Japan, 8 October 2004.
88. J.S. Kaastra: *High-resolution X-ray spectroscopy of AGN outflows*, Nagoya University, Japan, 8 October 2004.
89. J.S. Kaastra: *High-resolution X-ray spectroscopy of AGN outflows*, Institute of Space and Astronautical Science, Sagamihara, Japan, 12 October 2004.
90. J.S. Kaastra: *Rolf Mewe: a career devoted to X-ray spectroscopy*, X-ray Diagnostics for Astrophysical Plasmas: Theory, Experiment, and Observation, Boston, 15 November 2004.
91. J.S. Kaastra: *High-resolution X-ray observations of extragalactic sources*, Vilspa, Spain, 9 December 2004.
92. J.S. Kaastra: *Prospects and requirements for measurement of the distribution of the elements with XEUS*, Constellation-X/XEUS science meeting, Cambridge, Mass., 23 February 2005.

93. J.S. Kaastra: *Studying the formation and distribution of the elements using X-ray spectroscopy*, 2005 ESLAB symposium, Noordwijk, 20 April 2005.
94. J.S. Kaastra: *Searching missing baryons: the hunt for WHIM*, 4th Astroparticle Physics symposium, Groningen, 22 April 2005.
95. J.S. Kaastra: *Formation and distribution of the elements*, XEUS workshop, MPE, Garching, Germany, 31 May 2005.
96. J.S. Kaastra: *Absolute Effective Area Calibration of the XMM-Newton Reflection Grating Spectrometers*, The X-ray Universe 2005, San Lorenzo de El Escorial, Spain, 26 September 2005.
97. J.S. Kaastra, E. Costantini: *The warm absorber in NGC 5548*, Physics of warm Absorbers in AGN, 2nd Astro-PF Workshop at CAMK, Warsaw, Poland, 6 October 2005.
98. J.S. Kaastra, *Cosmological studies using clusters*, Workshop on Measuring the Diffuse Intergalactic Medium Shonan Village Center, Kanagawa, Japan, 11 October 2005.
99. J.S. Kaastra: *XEUS, AGN Winds in the Caribbean*, St John, U.S. Virgin Islands, 30 November 2005.
100. J.S. Kaastra: *The search for Warm Intergalactic Matter*, Joint Particle and Astro-Particle Physics Seminar of the Universities of Karlsruhe, Tübingen and Heidelberg as well as the Forschungszentrum Karlsruhe (FZK), Karlsruhe, 17 January 2006.
101. J.S. Kaastra: *Past, Present and Future Prospects of High Resolution X-ray Spectroscopy of Clusters of Galaxies*, workshop High resolution X-ray spectroscopy: towards XEUS and Con-X, MSSL, England, 27 March 2006.
102. J.S. Kaastra: *The Crab: the absorption model and consequences for absolute effective area calibration*, International Working Group on cross-calibration and the definition of X-ray standards, Nesjavellir, Iceland, 14 June 2006.
103. J.S. Kaastra: *RGS X-ray Spectroscopy of the Crab Nebula*, The extreme universe in the Suzaku Era, Kyoto, Japan, 7 December 2006.
104. J.S. Kaastra: *The matter content of clusters of galaxies from X-ray observations*, Outstanding questions for the standard cosmological model, London, UK, 26 maart 2007.
105. J.S. Kaastra: *High-resolution X-ray spectroscopy of the Crab nebula with XMM-Newton*, colloquium, Oxford, UK, 4 April 2007.
106. J.S. Kaastra: *Putting it all together: from white dwarfs to Crab using high spectral resolution: how accurate can we get?*, 2nd IACHEC meeting, Lake Arrowhead, California, USA, 9 May 2007.
107. J.S. Kaastra: *Feedback from SNR, ISM to AGN*, EDGE Meeting, Review of the Proposal, Rome, 30 May 2007.
108. J.S. Kaastra: *EDGE observation program*, EDGE Meeting, Review of the Proposal, Rome, 31 May 2007.
109. J.S. Kaastra: *High spectral resolution observations with AGN*, XMM-Newton: The Next Decade, ESAC, Villafranca del Castillo, Spain, 5 June 2007.

110. J.S. Kaastra: *The X-ray spectrum of the Crab nebula: how well do we know?*, SRON Wetenschapsdagen, Dalfsen, Nederland, 11 June 2007.
111. J.S. Kaastra: *RGS spectroscopy of the Crab nebula*, X-ray grating spectroscopy, Cambridge, Mass., USA, 11 July 2007.
112. J.S. Kaastra: *Calibration of SXC*, 3rd IACHEC meeting, Schloss Ringberg, Germany, 17 June 2008.
113. J.S. Kaastra: *The chemical enrichment of clusters of galaxies*, the X-ray Universe 2008, Granada, Spain, 29 May 2008.
114. J.S. Kaastra: *Abundance studies using X-ray spectroscopy of clusters of galaxies*, The cosmic odyssey of the elements, Aegina, Greece, 25 June 2008.
115. J.S. Kaastra: *Non-Maxwellian electron distributions in clusters of galaxies*, 37th Cospar Scientific Assembly, Montreal, 13 July 2008.
116. J.S. Kaastra: *The chemical evolution of clusters of galaxies*, Exploring the hot Universe with IXO, Garching, Germany, 18 September 2008.
117. J.S. Kaastra: *Spectroscopy with Astro-H*, Astro-H consortium meeting, ISAS, Japan, 25 February 2009.
118. J.S. Kaastra: *Concluding remarks*, High resolution X-ray spectroscopy: towards IXO, MSSL, Holmbury St. Mary, UK, 20 March 2009.
119. J.S. Kaastra: *Progress in X-ray plasma diagnostics*, The energetic Cosmos: from Suzaku to Astro-H, Otaru, Hokkaido, Japan, 1 July 2009.
120. J.S. Kaastra: *WHIM study*, IXO meeting, Otaru, Hokkaido, Japan, 3 July 2009.
121. J.S. Kaastra: *Thermal and non-thermal line diagnostics in SNRs*, Exploring supernova remnants and pulsar wind nebulae in X-rays: before and after Astro-H, ISAS/JAXA, Sagamihara, Japan, 18 February 2010.
122. J.S. Kaastra: *Enriching the IGM through outflows to cosmic filaments*, Cosmic chemical evolution workshop, St. Michaels, Maryland, USA, 3 June 2010.
123. J.S. Kaastra: *Feeding AGN: high-resolution X-ray spectroscopy and monitoring of Markarian 509*, Colloquium, Univ. Strassbourg, France, 19 November 2010.
124. J.S. Kaastra: *Feedback and enrichment from SNR to LSS*, invited talk, Present status and future prospects in X-ray Astronomy, Rome, Italy, 15 March 2011.
125. J.S. Kaastra: *Studying AGN with high resolution spectroscopy*, invited talk, The X-ray Universe 2011, Berlin, Germany, 29 June 2011.
126. J.S. Kaastra: *Chemical evolution of clusters of galaxies: prospects*, invited talk, JENAM Conference, St. Petersburg, Russia, 4 July 2011.
127. J.S. Kaastra: *Anatomy of an outflow: mapping the Mrk 509 warm absorber*, AGN winds in Charleston, Charleston, South Carolina, USA, 15 October 2011.
128. J.S. Kaastra: *Chemical enrichment in the diffuse gas in galaxies*, invited talk, Workshop on Chemical Evolution of the Universe Tokyo Metropolitan University, Tokyo, Japan, 1 November 2011.

129. J.S. Kaastra: *Developments in High Energy Astrophysics; the science from XMM to ATHENA*, invited talk, Farewell symposium Piet de Korte, Utrecht, 3 November 2011.
130. J.S. Kaastra: *On the AGN outflow of Mrk 509*, NOVA NW3 meeting, Utrecht, 26 January 2012
131. J.S. Kaastra: *Update on Athena*, NOVA NW3 meeting, Utrecht, 26 January 2012
132. J.S. Kaastra: *AGN feedback from Seyfert galaxies: the case of Mrk 509*, lunchtalk, Leiden, 28 March 2012.
133. J.S. Kaastra: *How black holes grow, glow and blow: the case of Markarian 509*, SRON Science days, Dalfsen, Netherlands, 5 June 2012.
134. J.S. Kaastra: *X-ray spectroscopy with the SXS microcalorimeter*, invited talk, Special session 8, EWASS conference, Rome, Italy, 3 July 2012.
135. J.S. Kaastra: *Physics and structure of photoionised outflows in active galactic nuclei*, solicited talk, 39th COSPAR scientific assembly, Mysore, India, 16 July 2012.
136. J.S. Kaastra: *Accretion and outflow of gas in Markarian 509*, IAU Symposium 290, Beijing, China, 22 August 2012.
137. J.S. Kaastra: *Results from the multi-wavelength campaign of Mrk 509*, Mini-workshop on narrow-line Seyfert 1 galaxies across the electromagnetic spectrum, NAOC, Beijing, China, 28 August 2012.
138. J.S. Kaastra: *Spectral modeling and diagnostics in various astrophysical environments*, invited talk, Eighth International Conference on Atomic and Molecular Data and Their Applications (ICAM-DATA), Gaithersburg, Maryland, USA, 3 October 2012.
139. J.S. Kaastra: *A deep look into AGN: accretion and outflow of gas in Mrk 509*, Space Telescope Science Institute, Baltimore, USA, 5 October 2012.
140. J.S. Kaastra: *A deep look into AGN: accretion and outflow of gas in Mrk 509*, colloquium, Institute of Astronomy, Cambridge, UK, 25 October 2012.
141. J.S. Kaastra: *SPEX: recent developments*, tea-talk, Institute of Astronomy, Cambridge, UK, 26 October 2012.
142. J.S. Kaastra: *A deep look into AGN: accretion and outflow of gas in Mrk 509*, ESO/MPA/MPE/USM Joint Astronomy Colloquium, ESO, Garching, Germany, 15 November 2012.
143. J.S. Kaastra: *Spectral modeling of cosmic atomic plasmas*, invited review, 13th HEAD meeting, Monterey, California, USA, 10 April 2013.
144. J.S. Kaastra: *Galactic superwinds and cluster metallicities*, invited review, Multi-scale structure formation and dynamics in cosmic plasmas, ISSI, Bern, 15 April 2013.
145. J.S. Kaastra: *Ton(n)en lijnen*, farewell symposium Ton Raassen, Amsterdam, 17 September 2013.
146. J.S. Kaastra: *Synergy between SXS and HXI/SGD science*, invited talk, HXI/SGD Science Workshop, Hiroshima University, Higashi Hiroshima, 25 February 2014.
147. J.S. Kaastra: *Anatomy of the AGN in NGC 5548: discovery of a fast and massive outflow*, contributed talk, The X-ray Universe 2014, Dublin, Ireland, 18 June 2014.

148. J.S. Kaastra: *Photoionised plasma analysis*, AtomDB workshop 2014, invited lecture, Tokyo Metropolitan University, Tokyo, Japan, 6 September 2014.
149. F. Paerels & J.S. Kaastra: *Absorption features and edges*, AtomDB workshop 2014, invited lecture, Tokyo Metropolitan University, Tokyo, Japan, 7 September 2014.
150. J.S. Kaastra: *Röntgendiagnostiek in de ruimte: lijnen in het heelal*, inaugural lecture, Leiden University, 3 November 2014.
151. J.S. Kaastra: *Dark storms near supermassive black holes*, Colloquium, Groningen, 12 January 2015.
152. J.S. Kaastra: *Progress in modeling astrophysical plasmas*, Invited lecture, 2015 Joint ICTP-IAEA Advanced School and Workshop on Modern Methods in Plasma Spectroscopy, Trieste, Italy, 24 March 2015.
153. J.S. Kaastra: *Modeling tools – from line fits to science results*, ASTRO-H supernova remnant workshop, Tokyo Metropolitan University, Tokyo, Japan, 29 July 2015.
154. J.S. Kaastra: *Atomic processes in optically thin plasmas*, invited review, Focus Meeting 12 on Laboratory Astrophysics, IAU General Assembly, Honolulu, Hawaii, 3 August 2015.
155. J.S. Kaastra: *Atomic data: state of the art and future perspectives*, invited review, The Universe in high-resolution X-ray spectra, Cambridge, Massachusetts, USA, 19 August 2015.
156. J.S. Kaastra: *The missing baryons and the warm-hot intergalactic medium*, invited talk, Exploring the Hot and Energetic Universe: The first Scientific Conference dedicated to the Athena X-ray Observatory, ESAC, Spain, 8 September 2015.
157. J.S. Kaastra: *Atomic processes of importance in astrophysics*, invited lecture, STCF Introductory Summer School, Belfast, UK, 31 August 2015.
158. J.S. Kaastra: *Astrophysical X-ray spectra*, invited lecture, 19th intern. conf. on atomic processes in plasmas, Paris, France, 4 April 2016.
159. J.S. Kaastra: *Astrophysical plasma modeling in the Astro-H era*, invited review, 19th intern. conf. on atomic processes in plasmas, Paris, France, 6 April 2016.
160. J.S. Kaastra: *High-resolution X-ray spectroscopy: the coming-of-age*, invited review, XMM-Newton: The next decade, ESAC, Spain, 9 May 2016.
161. J.S. Kaastra: *SPEX (plasmas diagnostic tools)*, invited lecture, Workshop High-resolution X-ray spectroscopic software and tools, ESAC, Spain, 13 May 2016.
162. J.S. Kaastra: *Athena*, invited talk, NL SKA meeting, Amersfoort, 13 April 2017.
163. J.S. Kaastra: *Science with hot astrophysical plasmas*, invited lecture, 2nd European Conference on Plasma Diagnostics (ECPD), Bordeaux, 20 April 2017.
164. J.S. Kaastra: *AGN Obscurers*, invited presentation, AGN driven winds, Haifa, Israel, 22 May 2017.
165. J.S. Kaastra: *AGN*, invited lecture, AHEAD school, Alicante, Spain, 14 November 2017.
166. J.S. Kaastra: *Systematic X-ray modeling uncertainties and the physics of clusters*, invited review, ISSI, Bern, Switzerland, 21 November 2017.

167. J.S. Kaastra: *Deciphering AGN outflows with joint UV and X-ray observations*, invited talk, 231 AAS meeting, Washington DC, 9 January 2018.
168. J.S. Kaastra: *Optimal binning and fit statistics for X-ray spectra*, invited talk, 13th IACHEC meeting, Avigliano, Italy, 11 April 2018.