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Persons of reference:

- Prof. Jelle S. Kaastra (Leiden Observatory) – kaastra@strw.leidenuniv.nl
- Dr. Norbert Werner (MTA-Eötvös University Lendület) – wernernorbi@gmail.com
- Dr. Jelle de Plaa (SRON Netherlands Institute for Space Research) – j.de.plaa@sron.nl

Born: June 27, 1989 – Brussels, Belgium
Nationalities: Belgian, French

Current position

Postdoctoral Researcher, MTA-Eötvös University (Budapest)
(Mentor: Dr. Norbert Werner)

Areas of specialization

X-ray spectroscopy – Clusters/groups of galaxies – Intracluster medium –
Chemical enrichment – *XMM-Newton*

Skills

COMPUTING SKILLS

Expert	SPEX – <i>XMM-Newton</i> SAS
Good	UNIX console – BASH – Fortran 90 – Python – matplotlib – L ^A T _E X – XSPEC – HEAsoft – SAO ds9
Intermediate	Linux – Mac OS – Windows – Inkscape – GIMP – C
Basic	HTML – C++

LANGUAGES

Fluent	French – English
Intermediate	Dutch

Education

- 2013-2017 PHD in High-energy Astrophysics, Leiden University/SRON
2010-2012 MSc in Space Sciences, University of Liège (*Magna Cum Laude*)
2007-2010 BSc in Physics, Université Libre de Bruxelles (*Cum Laude*)
2001-2007 HIGH SCHOOL in Latin-Mathematics, Lycée Émile Jacqmain, Brussels (*Cum Laude*)

Grants, honors & awards

- 2016 71th Netherlands Astronomy Conference - Poster Prize: Laureate
2006 Orthograph Championship (French): Laureate

Conferences, Colloquia & Workshops

INVITED TALKS

- June 2019 “Chemical abundances in the hot atmospheres of galaxy clusters, groups, and elliptical galaxies”, *Astrophysics of Hot Plasmas in Extended X-ray Sources*, ESAC, Madrid (Spain)
March 2018 “Spatial distribution of metals in the intracluster medium”, *SnowCluster 2018: The Physics of Galaxy Clusters*, Snowbird, Utah (USA)
Nov. 2017 “Elemental abundances and chemical enrichment in the intracluster medium”, *Clusters of Galaxies: Physics and Cosmology – International Space Science Institute (Workshop)*, Bern (Switzerland)

CONTRIBUTED TALKS

- July 2019 “Chemical abundances and enrichment in the intracluster medium”, *Tracing Cosmic Evolution with Clusters of Galaxies*, Sexten (Italy)
March 2019 “Chemical enrichment of the atmospheric gas in clusters, groups, and massive galaxies”, *Physics of the Intra-Cluster Medium: Theory and Computation*, Budapest (Hungary)
June 2017 “Radial distribution of metals in the hot intra-cluster medium as observed by XMM-Newton”, *The X-ray Universe 2017*, Rome (Italy)
April 2017 “Radial metal abundance profiles in the intra-cluster medium of cool-core clusters, groups, and ellipticals”, *Physics of the Intra-Cluster Medium*, Beijing (China)
May 2016 “CHEERS! The origin of heavy elements in galaxy clusters”, *SRON Science Days*, Delfsen (The Netherlands)
July 2015 “The CHEERS project”, *The Metal Enrichment of Diffuse Gas in the Universe*, Sexten (Italy)
May 2015 “CHEERS: Chemical enrichment in the hot gas of galaxy clusters seen through XMM-Newton EPIC”, *Spectroscopy of Cosmic Plasma in the Era of ASTRO-H*, Tokyo (Japan)
June 2014 “An XMM-Newton view of Abell 4059”, *The X-ray Universe 2014*, Dublin (Ireland)

COLLOQUIA & SEMINARS

- May 2018 “Elemental abundances and chemical enrichment in the hot intracluster medium”, *Hiroshima University Seminar*, Hiroshima (Japan)
May 2018 “Understanding the chemical enrichment pattern in the hot haloes of massive ellipticals, groups, and clusters of galaxies”, *Kavli IPMU Colloquium*, Tokyo (Japan)
March 2018 “From supernovae to galaxy clusters: Chemical enrichment in the hot intracluster medium”, *Lowell Observatory Colloquium*, Flagstaff, Arizona (USA)

- Feb. 2018 “Elemental abundances and chemical enrichment in the intracluster medium”, *IRAP Seminar*, Toulouse (France)
- April 2017 “From supernovae to galaxy clusters: Observing the chemical enrichment in the intra-cluster medium”, *PhD Colloquium*, Leiden (The Netherlands)
- Jan. 2017 “From supernovae to galaxy clusters: Chemical enrichment of the intra-cluster medium seen by *XMM-Newton*”, *Ortvay Colloquium*, Budapest (Hungary)
- Dec. 2013 “Probing chemical abundances in Abell 4059 using *XMM-Newton*”, *Argelander Institut für Astronomie Seminar*, Bonn (Germany)

OUTREACH TALKS

- July 2019 “Clusters of galaxies... and the surprises of their spectacular hot atmospheres”, *Astronomy on Tap - Budapest*, Budapest (Hungary)
- April 2019 “The dark side of matter”, *Astronomy on Tap - Budapest*, Budapest (Hungary)

POSTERS

- Sept. 2019 “Metals in the intracluster medium”, *X-ray astronomy 2019: Current Challenges and New Frontiers in the Next Decade*, Bologna (Italy)
- Sept. 2018 “Abundance measurements in the intracluster medium: Consequences of spectral code improvements”, *Exploring the Hot and Energetic Universe: The second scientific conference dedicated to the Athena X-ray observatory*, Palermo (Italy)
- Sept. 2017 “Radial distribution of metals in the intra-cluster medium”, *The power of X-ray spectroscopy*, Warsaw (Poland)
- Dec. 2016 “Radial metal abundance profiles in the hot intra-group and intra-cluster medium”, *The Physics of Groups and Galaxy Properties therein*, Paris (France)
- May 2016 “Chemical enrichment in the hot intra-cluster medium seen with XMM-Newton/EPIC”, *XMM-Newton: The next decade*, ESAC, Madrid (Spain)
- May 2016 “The origin of heavy elements in galaxy clusters”, *71th Netherlands Astronomy Conference*, Nunspeet (The Netherlands)
- May 2015 “An *XMM-Newton* study of temperatures and abundances in Abell 4059”, *70th Netherlands Astronomy Conference*, Nunspeet (The Netherlands)
- Sept. 2013 “Chemical enrichment in clusters of galaxies from the *XMM/Suzaku* to the *ASTRO-H* era”, *4th ASTRO-H summer school*, Shuzenji (Japan)

Teaching & Outreach

- 2019 “[Astronomy on Tap - Budapest](#)” (co-organiser)
- 2018 High energy astrophysics (guest lecturer), MSc level, Eötvös University
- 2018-2019 Co-supervising BSc student (Anna Görgei): BSc thesis, Eötvös University
- 2017-2018 Co-supervising BSc student (Ádám Boldog): BSc thesis, Eötvös University
- Sum. 2015 Co-supervising BSc student (Sinancan Kara): BSc thesis, SRON/Bogazici University
- 2014-2015 High energy astrophysics (Teaching assistant), MSc level, Leiden Observatory
- 2011-2013 Private student tutoring (Mathematics; physics), high school level, Brussels
- 2007-now Astronomy camp (teaching & animating, high school level), “[Jeunesse et Science ASBL](#)”, Modave (Belgium)

Service to the department

2019-now	Webmaster of the Lendület Hot Universe Research Group website, Budapest
March 2019	LOC member of the “ Physics of the Intra-Cluster Medium: Theory and Computation ” conference, Budapest
2014-2017	Chair/organiser of regular “Galaxy clusters meetings”, Leiden Observatory
2014-2015	Organizer of the colloquium dinner events, SRON
2014-2017	Member of the “Social committee”, Leiden Observatory
2013-2014	Online update of arXiv preprints, Leiden Observatory website

Last updated: August 13, 2019