

"X-ray topics in Astronomy: from history to the future"

On the occasion of Rüdiger Staubert's 80th birthday

April 16-17, 2019, Tübingen
Venue: Cyber Valley - Lecture room TTR2
Maria-von-Linden-Str. 6, 72076, Tübingen

Tuesday, April 16, 2019

13:30 – 13:55 *Get together and Welcome Tea and Coffee*
13:55 – 14:00 Welcome to Tübingen - Andrea Santangelo

Opening Session

14:00 – 14:30 Looking back at 57 years with Rüdiger Staubert - Joachim Trümper
14:30 – 14:55 Old balloons and golden years - Pietro Ubertini

Session 1: Missions and more

14:55 – 15:20 Athena: the future large X-ray observatory - Matteo Guainazzi
15:20 – 15:45 eRosita coming soon - Peter Friedrich
15:45 – 16:10 From HXMT to eXTP - Andrea Santangelo on behalf of Shuang-Nan Zhang
16:10 – 16:30 *Coffee Break*
16:30 – 16:50 XMM-Newton - preparation for the 3rd decade of operations - Markus Kirsch
16:50 – 17:10 INTEGRAL in the GWs era - Carlo Ferrigno
17:10 – 17:30 Synergy and competition of X-Ray and microwave sky surveys of clusters of galaxies: What we can expect from SRG/eRosita and ground based mm telescopes - Rashid Sunyaev

Session 2: Accretion on magnetized sources and more

17:30 – 17:50 Low level accretion onto highly magnetized neutron stars - Sergey Tsygankov
17:50 – 18:10 Accreting pulsars in ULXs: observational review - Felix Fürst
18:10 – 18:30 Features of super-Eddington accretion onto magnetized neutron star - Alexander Mushtukov

19:30 *Get together 2: Dinner of the Workshop*
 Bella Roma, Hartmayerstr. 11, 72076 Tübingen

Wednesday, April 17, 2019

Session 2 cont.: Accretion on magnetized sources and more

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| 09:00 – 09:20 | High-Mass X-ray binary pulsars at high accretion rates - Frank Haberl |
| 09:20 – 09:40 | X-ray binaries with HXMT - Shu Zhang |
| 09:40 – 10:00 | X-ray millisecond pulsars, constraints on the EOS and X-ray polarimetry - Juri Poutanen |
| 10:00 – 10:20 | On the nature of 35-days cycle in Her X-1 = HZ Her - Nikolai Shakura |
| 10:20 – 10:40 | <i>Coffee Break</i> |
| 10:40 – 11:00 | Be X-ray binaries as laboratories for accretion physics - Peter Kretschmar |
| 11:00 – 11:15 | Deciphering wind accretion in HMXBs - Victoria Grinberg |
| 11:15 – 11:30 | Broad band X-ray spectra of what used to be BeXRBs in quiescence - Victor Doroshenko |
| 11:30 – 11:50 | Spectral evolution of X-ray bursts - Valery Suleimanov |

Session 3: Other Topics in X-ray Astronomy

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| 11:50 – 12:10 | Active Galactic Nuclei: what comes next - Joern Wilms |
| 12:10 – 12:30 | Super-Eddington accreting black holes in AGNs - Jian-Min Wang |
| 12:30 – 12:50 | RXTE observations of clusters of galaxies - Richard Rothschild |
| 12:50 – 13:00 | Final Remarks - Andrea Santangelo, Rüdiger Staubert |

Festvortrag
Prof. Günther Hasinger
European Space Agency's Director of Science

"Exploring the Universe: Synergies in the ESA Science Programme"
How Europe will explore the Universe in the coming decades

17:45 – 18:45 Lecture hall N3
Hörsaalzentrum Morgenstelle
Auf der Morgenstelle 16, 72076 Tübingen

20:00 *Let's celebrate together: party in honor of Rüdiger Staubert*
IAAT, Sand 1, 72076 Tübingen, Room A104