

Innsbruck

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1 Personal und Ausstattung

1.1 Personalstand

Dr. Arntraud Bacher (PostDoc*, wiss.MA (FWF), Durchwahl 6054), Dr. Marco Barden (PostDoc*, wiss. MA (FWF) 6034), Dr. Werner Bengler (PostDoc* (FWF), 6049), Dr. Elisabetta Bissaldi (PostDoc, Univ.Ass., 6065), Dr. Asmus Böhm (PostDoc*, (FWF), 6034), Mag. DI Benjamin Bösch (Doktorand, Univ.Ass., 6043), MSc Silvia Dalnodar (Doktorandin* (FWF), seit 01.03., 6032), Dr. Kathrin Egberts (PostDoc, Univ.Ass., 6063), Mag. Haider Markus (Doktorand, Univ.Ass., 6036), Dr. Herbert Hartl (allg. Bed., 6039), Dipl.Phys. Andreas Hiemer (Doktorand, Univ.Ass., seit 17.10., 6049), Mag. Harald Höller (Doktorand, Univ.Ass., 6043), MSc Lars Hunger (Doktorand, Univ.Ass., seit 01.12., 6032), Mag. Wolfgang Jais (wiss MA*, 6354), MSc Amy Michelle Jones (Doktorandin*, seit 01.10., 6032), Mag. Patrick Jussel (Doktorand* bis 30.06., PostDoc* (FWF) seit 01.07., 6378), Mag. Dr. Wolfgang Kausch (SenPostDoc*, 6037), A. Univ.-Prof. Dr. Stefan Kimeswenger (6050), Ass.-Prof. Dr. Ralf Kissmann (6336), A. Univ.-Prof. Dr. Emmerich Kneringer (6323), em. Univ.-Prof. Dr. Dietmar Kuhn, (Projektleiter*, 6304), Ass.-Prof. Dr. Manfred Leubner, (Projektleiter* (FWF) bis 14.07., 6041), Mag. Lorenzo Lovisari (wiss.MA.* (FWF) bis 31.03., 6032), DI FH Gregor Mair (wiss MA*, bis 30.06., 6354), Dr. Stefan Noll (SenPostDoc*, 6037), Dr. Rosita Paladino (PostDoc, Univ.Ass., bis 31.03., 6075), Mag. Jocelin Perez (Doktorand, 6378), o. Univ.-Prof. Dr. Jörg Pfeiderer (Emeritus, 6075), Mag. Florian Pranger (Doktorand, Univ.Ass., seit 07.11., 6049), Univ.-Prof. Dr. Olaf Reimer, (6060), MSc Klaus Reitberger (Doktorand, Univ.Ass., seit 03.01., 6222), Mag. Tobias Riser (Doktorand* (FWF), bis 11.09., 6046), Elmar Ritsch (wiss MA* bis 30.09., 6222), Ao. Univ.-Prof. Dr. Gerald Rudolph (6325), Sams Sebastian (wiss. MA*, seit 01.07., 6354), A. Univ.-Prof. Dr. Walter Saurer (6038), Univ.-Prof. Dr. Sabine Schindler (Vorstand, 6030), Seebacher Martin (wiss. MA*, seit 01.07., 6354), M.Sc. Dominik Steinhauser (Doktorand* (FWF), 6036), Dr. Josef Stöckl (PostDoc, Univ.Ass., seit 07.09., 6046), Ph.D. Szyzka Cezary Tadeusz (PostDoc*, seit 01.10., 6032), Dr. Giovanna Temporin (PostDoc, Univ.Ass., 6042), Anna Usanova (Doktorandin* (FWF), seit 01.07., 6049), Dr. Vörös Zoltan (PostDoc* (FWF) 6041), Ao. Univ.-Prof. Dr. Ronald Weinberger bis 30.11., (6035), MSc. Mi-

chael Werner (Doktorand* (FWF) seit 01.06., 6378), Hildegard Egger (Sekretärin, 6031), Knoll Barbara (Sekretärin*, bis 31.05., 6054), Mag. Leonie Werner (Sekretärin, 6061), Wester Claudia (Sekretärin*, seit 16.05., 6054), Schafer Josef (Systemadministrator, 6055), Friedrich Vötter (Techniker, 6055), (* = Drittmittel).

2 Gäste

Direktor Dr. Hans-Walter Rix (Max-Planck-Instituts Heidelberg, Heidelberg, D) Dominique Meyer (University of Strasbourg, Strasbourg, F) Univ.-Prof. Dr. Bodo Ziegler (Institut für Astronomie, Universität Wien, A) Dr. Rosita Paladino (Istituto Nazionale di Astrofisica, Istituto di Radioastronomia, Bologna, I) Dr. Zsolt Sandor (Max-Planck-Institutefür Astronomie, Heidelberg, D) Dipl.Phys. Andreas Hiemer (Universität Augsburg, D) Prof. Dr. Craig L. Sarazin (Department of Astronomy, University of Virginia, USA) Mag. Florian Pranger (Institut für Theoretische Physik, Universität Innsbruck, A) Dr. Luca Cortese (European Southern Observatory, München, D) Dr. Davor Krajnovic (European Southern Observatory, München, D) Dr. David Wilman (Max Planck Institute for Extraterrestrial Physics, Garching, D) Dr. Wolfram Schmidt (Institut f. Astrophysik, Universität Göttingen, D) Dr. Michiel Brentjens (ASTRON, Dwingeloo, NL) Dr. Luigi Iapichino (Center for Astronomy, University of Heidelberg, D) Dr. Michael Rappenglück (Institute for Interdisciplinary Science, Gilching-Geisenbrunn, D) Direktor Dr. Reinhard Genzel (Max-Planck-Institut f. Extraterrestrische Physik, Garching, D) Prof. Dr. Martin Erdmann (RWTH Aachen, D) Dr. Ignacio Ferreras (Department of Space and Climate Physics, University College London, GB)

3 Lehrtätigkeit, Prüfungen und Gremientätigkeit

3.1 Lehrtätigkeiten

Es wurde Lehre in den Gebieten Astrophysik und Astronomie, Informatik, Physik, Lehramt Physik und Fachdidaktik Physik an der Universität Innsbruck durchgeführt. Im Sommersemester 2011 wurden 88 Semester-Wochenstunden abgehalten, im Wintersemester 2011/12 beliefen sich die Wochenstunden an Lehrveranstaltungen auf 70.

3.2 Gremientätigkeit

Barden, M.: Mitorganisator, 2nd Austrian High Performance Computing Workshop, Salzburg, Österreich, 30.05.2011 - 31.05.2011.

Kimeswenger, S.: Local Member of the Quality and Evaluation Commission. European Master Program "AstroMundus", Innsbruck, 01.01.2010 - 30.06.2011.

Kimeswenger, S.: Industrial Liaison Officer für Österreich. European Southern Observatory (ESO), Garching/München, 01.01.2008 lfd.

Kimeswenger, Stefan: Vorsitzender der ESO-öGAA Koordinationsgruppe. Bundesministerium für Wissenschaft und Forschung (bm:wf), Wien, 01.05.2009 - 31.12.2011.

Kneringer, Emmerich: Mitglied der Habilitationskommission Dr. Thomas Karl. Leopold-Franzens-Universität Innsbruck, Innsbruck, 21.11.2011 lfd.

Kneringer, Emmerich: Mitglied der Berufungskommission "Theoretische Physik: Ausrichtung Bio-Nano-Physik" (§98 UG). Leopold-Franzens-Universität Innsbruck, Innsbruck, 16.05.2011 lfd.

Kuhn, Dietmar: österreichischer Vertreter im European GRID Deployment Board. GRID-Deployment Board, Genf, 01.01.2006 lfd.

Kuhn, Dietmar: National Contact Physicist for Austria. CERN, Genf, 01.01.2008 lfd.

Kuhn, Dietmar: Vertreter der Leopold-Franzens-Universität in der österreichischen IASA-

- Kommission. österreichische Akademie der Wissenschaften (öAW), Wien, 01.01.2005 lfd.
- Kuhn, Dietmar: Mitglied von FAKT; Fachausschuss für Kerne & Teilchen. österreichische Physikalische Gesellschaft, Wien, 01.01.1999 lfd.
- Kuhn, Dietmar: Mitglied Arbeitsgruppe GRID Computing und der Arbeitsgruppe Internationales. Austrian Center for Scientific Computing (ACSC), Innsbruck, 01.09.2010 lfd.
- Kuhn, Dietmar: Oesterr. Vertreter in der EU e-Infrastructure Reflection Group e-IRG. EU e-Infrastructure Reflection Group e-IRG, Espoo, Finnland (Sekretariat), 01.01.2007 lfd.
- Kuhn, Dietmar: Oesterreichischer Vertreter im European Committee for Future Accelerators (ECFA). European Committee for Future Accelerators RECFA / ECFA, 01.01.2006 lfd.
- Leubner, Manfred; Vörös, Z.: Konferenz Organisatoren, International Astrophysics Forum Alpbach IAFA 2011, Alpbach, österreich, 20.06.2011 - 24.06.2011.
- Reimer, Olaf: Country representative for Austria in the CTA project / Länderrepräsentant für österreich im Cherenkov Telescope Array-Projekt. Cherenkov Telescope Array, München, 01.01.2010 lfd.
- Reimer, Olaf: österreichischer Vertreter im Collaboration Board H.E.S.S. Consortium. The H.E.S.S. Collaboration (High Energy Stereoscopic System), Heidelberg, 28.04.2009 lfd.
- Reimer, Olaf: Organisation des H.E.S.S. Collaboration Meetings 2011 in Obergurgl, H.E.S.S. Collaboration Meeting 2011, Obergurgl, österreich, 14.03.2011 - 17.03.2011.
- Schindler, Sabine: Mitglied der Habilitationskommission DI Dr. Richard Kowar. Leopold-Franzens-Universität Innsbruck - Fakultät für Mathematik, Informatik, Physik (MIP), Innsbruck, 13.07.2011 - 11.11.2011.
- Schindler, Sabine: Mitglied der Habilitationskommission "Dr. Chiara Ferrari". Observatoire de la Côte d'Azur, Laboratoire Cassiopée, Nizza, 03.05.2011 - 13.07.2011.
- Schindler, Sabine: Mitglied der Habilitationskommission "Dr. Sylwia Ptasinska". Leopold-Franzens-Universität Innsbruck - Fakultät für Mathematik, Informatik, Physik (MIP), Innsbruck, 24.01.2011 - 24.05.2011.
- Schindler, Sabine: Mitglied der Habilitationskommission "Dr. Guido Pupillo". Leopold-Franzens-Universität Innsbruck - Fakultät für Mathematik, Informatik, Physik (MIP), Innsbruck, 01.10.2010 - 30.05.2011.
- Schindler, Sabine: Mitglied der Berufungskommission "Professur Nano-, Plasma- oder Biophysik" (§98 UG). Leopold-Franzens-Universität Innsbruck, Innsbruck, 16.05.2011 lfd.
- Schindler, Sabine: Mitglied der Berufungskommission Professur für "Mathematik" (§98 UG). Leopold-Franzens-Universität Innsbruck - Fakultät für Mathematik, Informatik, Physik (MIP), Innsbruck, 02.05.2011 lfd.
- Schindler, Sabine: Mitglied der Berufungskommission "Professur Funktionalanalysis und deren Anwendungen" (§98 UG). Leopold-Franzens-Universität Innsbruck - Fakultät für Mathematik, Informatik, Physik (MIP), Innsbruck, 01.03.2011 lfd.
- Schindler, Sabine: Mitglied der Berufungskommission Professur "Kosmologie". Georg-August Universität Göttingen, Göttingen, 09.09.2010 - 31.12.2011.
- Schindler, Sabine: Mitglied der Berufungskommission "Professur Theoretische Physik". Leopold-Franzens-Universität Innsbruck - Fakultät für Mathematik, Informatik, Physik (MIP), Innsbruck, 01.02.2010 - 01.03.2011.
- Schindler, Sabine: Mitglied der Evaluierungskommission. Academy of Sciences of the Czech Republic, Prag, 19.10.2010 lfd.
- Schindler, Sabine: Korrespondierendes Mitglied. International Academy of Astronautics (IAA), 20.07.2009 lfd.

Schindler, Sabine: Mitglied der Arbeitsgruppe Astronomie. European Space Agency (ESA), Paris, 01.02.2009 lfd.

Schindler, Sabine: Mitglied des wissenschaftlichen Beirats. Max-Planck-Institut für Astronomie, Heidelberg, 01.01.2009 lfd.

Schindler, Sabine: Mitglied des wissenschaftlichen Beirats. Universität Heidelberg, Heidelberg, 01.01.2009 lfd.

Schindler, Sabine: Member of the Committee of Council. European Southern Observatory (ESO), Garching/München, 01.06.2008 lfd.

Schindler, Sabine: Mitglied des wissenschaftlichen Beirates. österreichische Forschungsgemeinschaft (öFG), Wien, 01.06.2008 lfd.

Schindler, Sabine: Co-Organisator des "Internationalen Teams". International Space Science Institute (ISSI), Bern, 01.01.2007 lfd.

Schindler, S.: Mitglied des Scientific Organizing Committee, JENAM 2012 - European Week of Astronomy and Space Science, Rom, Italien, 01.07.2012 - 06.07.2012.

Schindler, S.: Mitorganisatorin, 2nd Austrian High Performance Computing Workshop, Salzburg, Österreich, 30.05.2011 - 31.05.2011.

Schindler, Sabine: Mitglied des Scientific Organizing Program Committee, 8th INTEGRAL/BART Workshop IBWS, Karlsbad, Tschechien, 26.04.2011 - 29.04.2011.

Schindler, Sabine: Mitglied des wissenschaftlichen Organisationskomitees, Summer School Alpbach 2011, Alpbach, Österreich, 01.08.2011 - 31.08.2011.

4 Wissenschaftliche Arbeiten

Galaxienhaufen, Galaxienentwicklung und Kosmologie

Die numerischen Simulationen von Galaxienhaufen wurden fortgesetzt, weiter ausgebaut und um nicht-thermische Anteile (Magnetfelder) ergänzt, um deren Einfluss auf die Entstehung von Galaxienhaufen und die Turbulenzeigenschaften des Intra-Cluster-Mediums (ICM) zu untersuchen. Dabei wurden Faraday-Rotations-Karten erstellt, um Vergleiche mit zukünftigen LOFAR Beobachtungen zu ermöglichen, sowie ein möglicher Zusammenhang zwischen Radio-Relikten/-Halos und starken Schockwellen im ICM untersucht. Auf Galaxienskalen wurden mit Hilfe von numerischen Simulationen das Abstreifen von Galaxiengas in Gruppen und Galaxienhaufen in Abhängigkeit von den Galaxieneigenschaften (Masse, Scheibengröße, Bulge-Disk-Verhältnis,...) und der Umgebung (Relativgeschwindigkeit und Dichte des umgebenden Mediums) analysiert, und diese Ergebnisse mit Beobachtungen verglichen. Im Bereich der Galaxienevolution wurden kinematische und spektrochemische Analysen sehr tief belichteter VLT-Spektren von massearmen Spiralgalaxien bei mittlerer Rotverschiebung ($z \approx 0.5$) durchgeführt. Des Weiteren wurden semi-analytische Modelle zur Entwicklung der Skalenrelationen von Scheibengalaxien entwickelt und Vergleiche mit Beobachtungsdaten durchgeführt. Die bereits begonnene Analyse der Sternentstehung in Galaxien mit hohem Staubanteil in Galaxienhaufen von niedriger bis mittlerer Masse im Vergleich zu Galaxien im Feld wurde fortgesetzt, womit gezeigt werden konnte, dass der Anstieg der Anzahl an leuchtstarken Infrarot-Galaxien in Galaxienhaufen insbesondere bei mittleren Radien signifikant höher ist als im Feld. Ferner wurde in Kollaboration mit einem französischen Team (Nizza, Marseille, Paris) eine Untersuchung der Eigenschaften von Galaxien mit aktiver Sternentstehung in selektierten Galaxienhaufen aus dem CFHT-Legacy Survey durchgeführt. In Kooperation mit dem Center for Computation & Technology an der Louisiana State University, Baton Rouge, USA, wurden die in Innsbruck generierten numerischen Simulationsdaten mit modernen Visualisierungsverfahren aufbereitet. Die technischen Anforderungen der Simulationsdaten haben hierbei auch zur Neu- und Weiterentwicklung von Visualisierungsalgorithmen geführt, die auch in anderen Bereichen bereits praktische Anwendung gefunden haben. Im Speziellen wurde eine neuartige

Methode zur Analyse von Punktwolken entwickelt, welche sowohl fuer die Untersuchung von Galaxienclustern als auch fuer geographische radar-basierte Landvermessung einsetzbar ist.

Astroteilchenphysik

Die Astroteilchenphysikgruppe ist aktiv im Bereich der Analyse und Diskussion von Daten der beobachtenden Gammastrahlenastronomie. Die dafür hauptsächlich genutzten Instrumente sind das Fermi Gamma-ray Space Telescope und das High-Energy Stereoscopic System (H.E.S.S.) in Namibia. Insbesondere die Analyse und Simulation von Binärsystemen massiver Sterne sowohl bei individuellen Quellen (wie eta Carinae) als auch bei Populationsaspekten (wie WR-Binärsysteme) wird hier fortgeführt.

Einen weiteren Schwerpunkt der Arbeitsgruppe bilden numerische Simulationen. Hierbei wird versucht Prozesse nachzuvollziehen, die in einer Vielzahl von Quellen Gammastrahlung produzieren. Ferner wird die Ausbreitung der Teilchen der kosmischen Strahlung in unserer Galaxie und ihre Wechselwirkung mit der interstellaren Materie und Strahlungsfeldern untersucht. Auch hier sind numerische Simulationen von großer Bedeutung.

Planetarische Nebel, Astrochemie, Sky Modelling

Erstmalig gelang es mit Beobachtungen nachzuweisen, dass der Außenbereich des Prototypen eines Halo PNs NGC 2438, nicht aus rekombinierendem sondern aus voll photoionisiertem Material besteht (2011arXiv1109.5609D) (Dalnodar). In weiterem werden neue 3D Hydrodynamikmodelle basierend auf Cronos und Flash für diese speziellen Stadien entwickelt (Dalnodar, Hunger, Kissmann, Kimeswenger).

In Zusammenarbeit mit dem Institut für Ionenphysik werden die Spektren von PAH Molekülen, welche durch impact von He Atomen verändert wurden in Berechnungen vorhergesagt und mit den beobachteten bisher nicht identifizierten Linien in Infrarotspektren astronomischer Objekte verglichen (Dalnodar, Kimeswenger, Huber, Probst).

Im Bereich des ESO in-kind Projektes Sky Modeling wurden vollständige Codes für den Strahlungstransport entwickelt. Diese erlauben nunmehr die Rekonstruktion von Tellurischen Absorptionen und Emission im gesamten Bereich von 0.35 bis 30 μm . Sie werden ab sofort auch bei der ESO für die Exposure Time Estimators (ETC) eingesetzt (Barden, Noll, Kausch, Szyszka, Jones, Kimeswenger).

5 Akademische Abschlussarbeiten

5.1 Diplomarbeiten

Abgeschlossen:

Ritsch, Elmar: Fast Calorimeter Punch-Through Simulation for the ATLAS Experiment

Burgmann, Karin: Fourieranalysis: Umsetzung und Anwendungen im Physikunterricht in der Schule

Werner, Michael: Wolf-Rayet binaries in the Fermi energy regime. (Masterarbeit)

5.2 Dissertationen

Abgeschlossen:

Jussel, Patrick: Flavour Tagging in Hadronic Bos Decays for the ATLAS Experiment at the Large Hadron Collider.

Riser, Tobias: Reduction and Processing of Astrophysical Data by Visualization and Creation of Merger Trees from Dark Matter Particle Simulations.

Stöckl, Josef: The Evolution of Magnetic Fields in Clusters of Galaxies.

Laufend:

Lukas, Wolfgang: Monte Carlo detector simulation tuning using ATLAS collision data (2010 lfd).

Firdous, Nameeqa: Tuning of the PYTHIA 6.4 Multiple Parton Interaction model to Minimum Bias and Underlying Event data (2010 lfd).

Bösch, Benjamin Werner: Kinematic studies of distant galaxies in different environments (2010 lfd).

Haider, Markus Josef: Metal enrichment of the Intra-Cluster Medium (2009 lfd).

Stampfl, Maria: Untersuchung zu interessensbeeinflussenden Faktoren im Physikunterricht der Sekundarstufe 1 in Tirol.

Steinhauser, Dominik: Hydrodynamic Simulations of galaxies (2009 lfd).

Lederle, Cornelia: Science with Small Telescopes - The 60cm Telescope of the New Observatory of the Institute of Astro- and Particle Physics of the Leopold-Franzens-University of Innsbruck and the Projects CI Aquilae and V838 Monocerotis (2006 lfd).

Mair, Maria Magdalena: Metal Enrichment and Mergers in Clusters of Galaxies (2005 lfd).

6 Tagungen, Projekte am Institut und Beobachtungszeiten

6.1 Projekte und Kooperationen mit anderen Instituten

Kimeswenger, Stefan: Software Module für die Reduktion von ESO-Daten. Sky background modeling and correction. Bundesministerium für Wissenschaft und Forschung (BM.W_F) 10.07.2009 - 30.06.2012

Kimeswenger, Stefan: ESO - University of Innsbruck - Sky Modelling Software (ESO in-kind). Bundesministerium für Wissenschaft und Forschung (BM.W_F) 01.06.2010 - 31.12.2014

Kneringer, Emmerich; Jussel, Patrick: Seltene B Meson Zerfälle im ATLAS Experiment (B Meson Zerfälle). Fonds zur Förderung der wissenschaftlichen Forschung (FWF), Einzelprojekt 01.07.2011 - 30.06.2014

Kuhn, Dietmar: Teilnahme der Innsbrucker Hochenergiegruppe am LHC-ATLAS-Projekt des CERN II. European Organization for Nuclear Research CERN (Conseil Européen pour la Recherche Nucléaire Bundesministerium für Wissenschaft und Forschung (BM.W_F) 01.01.2008 - 31.12.2012

Kuhn, Dietmar: Teilnahme der Innsbrucker Hochenergiegruppe am LHC-ATLAS-Experiment des CERN. Bundesministerium für Bildung, Wissenschaft und Kultur (bm:bwk) European Organization for Nuclear Research CERN (Conseil Européen pour la Recherche Nucléaire) 01.01.1998 - 31.12.2012

Leubner, Manfred: Turbulenz in Weltraumplasmen. Fonds zur Förderung der wissenschaftlichen Forschung (FWF), Einzelprojekt 15.07.2007 - 14.07.2011

Reimer, Olaf: The Preparatory Phase for the Cherenkov Telescope Array (CTA-PP) (CTA-PP). EU - FP7 01.10.2010 - 30.09.2013

Saurer, Walter: (Warum) Verlieren junge Leute das Interesse an der Physik? Tiroler Wissenschaftsfonds (TWF), Einzelprojekt 01.03.2011 - 28.02.2013

Schindler, Sabine; Adam, Christoph; Fahringer, Thomas; Hofstetter, Günter; Kendl, Alexander; Kimeswenger, Stefan; Oberguggenberger, Michael; Ostermann, Alexander; Probst, Michael; Reimer, Olaf: Computational Interdisciplinary Modelling. Fonds zur Förderung der wissenschaftlichen Forschung (FWF), Doktoratskolleg 01.06.2010 - 31.05.2014

Schindler, Sabine: Galaxienhaufen: Physik, Entwicklung und Kosmologie. Fonds zur Förderung der wissenschaftlichen Forschung (FWF), Einzelprojekt 09.07.2007 - 08.07.2012

6.2 Beobachtungszeiten

Böhm, Asmus; Barden, Marco: STAGES/OSIRIS Emission Line Imaging Survey of the A901/A902 Supercluster. European Southern Observatory (ESO) 01.10.2011 - 31.03.2012

Schindler, Sabine; Barden, Marco; Böhm, Asmus; Kendl, Alexander; Temporin, Sonia Giovanna: Star Formation in the wake of ram-pressure stripping. European Southern Observatory (ESO) 01.10.2011 - 31.03.2012

Schindler, Sabine: AGN-ICM interaction and peculiar radio emission in the cool core cluster RBS 797. European Space Agency (ESA) 01.05.2011 - 30.04.2012

Böhm, Asmus; Steinhauser, Dominik: Tracing galaxy interactions in two distant cluster complexes with 200 velocity fields. European Southern Observatory (ESO) 01.04.2011 - 30.09.2011

Kimeswenger, Stefan: Sakurai's Object: Monitoring the temperature evolution of a VLTP object. European Southern Observatory (ESO) 01.04.2011 - 30.09.2011

Paladino, Rosita: Magnetic field topology of Virgo A and its surrounding region. ASTRON - Netherlands Institute for Radio Astronomy 25.03.2011 - 07.04.2011

Temporin, Sonia Giovanna: GLACe: GaLAXy Cluster Evolution Survey. European Southern Observatory (ESO) 01.03.2011 - 28.02.2012 Paladino, Rosita: Multi-frequency observation of Virgo A. National Centre for Radio Astrophysics NCRA 18.01.2011 - 25.01.2011

Temporin, Sonia Giovanna: The star formation history of galaxy clusters. European Space Agency (ESA) 01.06.2010 - 31.05.2011

7 Auswärtige Tätigkeiten

7.1 Vorträge und Gastaufenthalte

Eingeladene Vorträge

Reimer, Olaf: GeV Astrophysics in multiwavelength context. Workshop "Multi-GeV Astrophysics with Ground-Based Detectors", Dublin, 12.12.2011 - 14.12.2011

Bissaldi, Elisabetta: On the range between conservative and optimistic estimates for GRB detections. Workshop "Multi-GeV Astrophysics with Ground-Based Detectors", Dublin, 12.12.2011 - 14.12.2011

Egberts, Kathrin: Impact of charged cosmic rays on science opportunities in the multi-GeV. Workshop "Multi-GeV Astrophysics with Ground-Based Detectors", Dublin, 12.12.2011 - 14.12.2011

Kissmann, Ralf Co-AutorInnen: Reimer, Olaf; Werner, Michael: Overview of current CR propagation codes. Cosmic Rays and the Heliospheric Plasma Environment, Bochum, 12.09.2011 - 16.09.2011

Reimer, Olaf: TeV observations of Galaxy Clusters - from now to CTA. Clusters of Galaxies as Cosmic Laboratories, Stockholm, 12.09.2011 - 14.09.2011

Jussel, Patrick: Inclusive $b\bar{b}$ Production in ATLAS. The 19th Particles and Nuclei International Conference (PANIC 2011), Massachusetts, 24.07.2011 - 29.07.2011

Leubner, M.: Nonextensive network statistics and hierarchically nested structure scales. International Conference on Statistical Physics - "Sigma Phi" 2011, Larnaca, 11.07.2011 - 15.07.2011

Vörös, Z.: Magnetic reconnection in the deep magnetotail. International Astrophysics Forum Alpbach IAFA 2011, Alpbach, 20.06.2011 - 24.06.2011

Vörös, Z. Co-AutorInnen: Yordanova, E.: Magnetic fluctuations near kinetic scales in the fast solar wind. International Astrophysics Forum Alpbach IAFA 2011, Alpbach, 20.06.2011

- 24.06.2011

Vörös, Z.: Turbulence in the heliosphere. Gemeinsame Jahrestagung von SPG, öPG, SGAA und öGAA / Réunion annuelle commune de la SSP, öPG, SSAA et öGAA, Lausanne, 15.06.2011 - 17.06.2011

Temporin, G.: Dusty star-forming galaxies in the XMM-LSS cluster sample. Workshop on "Star Formation in Galaxy Clusters" SFGC 2011, Nizza, 06.06.2011 - 07.06.2011

Kissmann, Ralf: Recent Developments for Approximate Riemann-solvers. 71. Jahrestagung der Deutschen Geophysikalischen Gesellschaft gem. mit der Arbeitsgemeinschaft Extraterrestrische Forschung, Köln, 21.02.2011 - 24.02.2011

Gastvorträge

Schindler, S.: Die Expansion des Universums. Montanuniversität Leoben, Leoben, 15.12.2011.

Benger, W.: F5 - Fiberbundle HDF5. Louisiana State University (LSU) - Centre for Computation and Technology (CCT), Louisiana, 01.12.2011.

Böhm, Asmus: Galaxy evolution since redshift $z=1$: An observer's point of view. Universität Wien, Wien, 02.05.2011 - 03.05.2011.

Bissaldi, Elisabetta: The Fermi Gamma-ray Burst Monitor - Results from the first 2.5 years and analysis of a sample of bright high-energy GRBs. University of Ljubljana, Ljubljana, 25.03.2011.

Angemeldete Vorträge, Posterpräsentationen

Die zahlreichen Vorträge dieser Art von Mitgliedern unseres Institutes werden aus Platzgründen nicht mehr separat angegeben. Sie sind auf Anfrage von unserem Sekretariat erhältlich.

8 Veröffentlichungen

8.1 In Zeitschriften und Büchern

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