Garching bei München

Max-Planck-Institut für extraterrestrische Physik

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0 Allgemeines

Die wissenschaftlichen Aktivitäten am MPE sind organisatorisch in vier große Arbeitsbereiche aufgeteilt, die jeweils von einem Direktor geleitet werden: (1) Infrarotund Submm/mm Astronomie (Prof. Dr. Reinhard Genzel und Prof. Dr. Frank Eisenhauer), (2) Optische und Interpretative Astronomie (Prof. Dr. Ralf Bender), (3) Hochenergie-Astrophysik (Prof. Dr. Kirpal Nandra) und (4) Zentrum für Astrochemische Studien (Prof. Dr. Paola Caselli). Diese vier Arbeitsbereiche, sowie noch zusätzlich eine unabhängige Forschungsgruppe (Dr. Silvia Spezzano), beschäftigen sich – oft bereichsübergreifend – mit unseren acht großen Forschungsthemen. Dabei werden überwiegend experimentelle Methoden angewandt, aber auch theoretische Untersuchungen durchgeführt. Der Name des Instituts bezieht sich einerseits auf den Gegenstand der Forschung: die Physik des Weltraums, andererseits auf die Forschungsmethoden: viele unserer Experimente werden notwendigerweise oberhalb der dichten, absorbierenden Erdatmosphäre mit Flugzeugen, Satelliten und Raumsonden durchgeführt. In zunehmendem Maße setzen wir aber, vor allem im optischen, im Infrarotbereich und in der Astrochemie, auch Instrumente an erdgebundenen Teleskopen ein. Methodisch lassen sich die Forschungsaktivitäten des MPE in mehrere Bereiche einteilen. In der beobachtenden Astrophysik werden am MPE innovative Instrumente vollständig oder zum Teil gebaut. Damit wird die Strahlung entfernter Objekte in den Millimeter/Submillimeter-, Infrarot-, Optischen-, Röntgenund Gammaspektralbereichen gemessen. Der hierbei überdeckte Teil des elektromagnetischen Spektrums umfasst mehr als zwölf Dekaden. Die untersuchten Objekte reichen von nahen Kometen bis zu den fernsten Quasaren, von winzigen Neutronensternen bis zu Galaxienhaufen, den größten bekannten Formationen im Kosmos. Theoretische Arbeiten liefern die Grundlagen zum Verständnis und Interpretation der Beobachtungen und Messungen. Die direkte Wechselwirkung von Beobachtern, Experimentatoren und Theoretikern im Hause ist ein Merkmal unseres Arbeitsstils und führt oft im direkten Wechselspiel von Hypothesen und Beobachtungstatsachen zu einem frühen Erkennen von Zusammenhängen und damit zu einer frühzeitigen Identifikation vielversprechender neuer Forschungsrichtungen. Ergänzt werden unsere Forschungsaktivitäten durch Experimente im Labor, mit denen sowohl die aus Theorie und Beobachtungen gewonnenen Ergebnisse überprüft als auch Informationen und Erkenntnisse gewonnen werden, die wiederum in theoretische Modelle und die Dateninterpretation einfliessen. Eine externe technologische Einrichtung des MPE ist von besonderer Bedeutung: Die 130 m lange Vakuumanlage Panter zum Test von Röntgenteleskopen in Neuried bei München. Fast alle röntgenastronomischen Experimente oder Teile davon wurden in dieser Anlage getestet. Unter

anderem durch diese Einrichtung findet ein Transfer von neuen Verfahren und Methoden in die industrielle Anwendung statt. Im Rahmen unserer Transferaktivitäten hielt das MPE 11 Patente am Ende von 2024. Neben der Forschung nimmt unser Institut auch universitäre Ausbildungsaufgaben wahr. Mehr als zehn MPE-Wissenschaftler sind als Hochschullehrer an zahlreichen Universitäten tätig und betreuen studentische Forschungsarbeiten, wie z.B. Bachelor-, Masterund Doktorarbeiten. Die Mehrzahl davon an den beiden Münchner Universitäten, aber auch an anderen deutschen Hochschulen und im Ausland. Darüber hinaus veranstalten wir spezielle Seminare und Symposien zu den im Institut behandelten Forschungsgebieten, häufig in Zusammenarbeit mit Universitätsinstituten. Durch unsere sehr erfolgreiche „International Max Planck Research School (IMPRS) on Astrophysics“ an der Ludwig-Maximilians-Universität (LMU) München wurde die Doktorandenausbildung im Raum Garching/München intensiviert. An dieser im Jahre 2000 gegründeten „Graduate School“ sind neben unserem Institut und dem Max-Planck-Institut für Astrophysik (MPA) noch das Institut für Astronomie und Astrophysik der LMU und die Europäische Südsternwarte (ESO) beteiligt. Mit typisch 80 Doktorandinnen und Doktoranden in diesem Programm, wovon etwa 30 am MPE arbeiten, gehört die IMPRS on Astrophysics zu den größten Einrichtungen dieser Art weltweit. Das MPE präsentiert seine Arbeit und die Ergebnisse seiner Forschung auch einem breiten Publikum. Regelmäßige Meldungen über die Wissenschaft, Projekte und Menschen am Institut werden ergänzt durch eine Vielzahl an Veranstaltungen sowohl im Hause als auch außerhalb, wie Führungen für Gruppen (meist Schulklassen), Teilnahme am jährlichen „Girls' Day“, dem zweijährig stattfindenden „Tag der offenen Tür“ sowie der Anleitung von Schüler und Hochschulpraktikanten. Darüber hinaus halten MPE Wissenschaftler regelmäßig populär-wissenschaftliche Vorträge außer Haus.

1 Personal und Ausstattung

1.1 Personalstand

Direktoren und Professoren: 8

Prof. Dr. R. Bender, Optische und Interpretative Astronomie
Prof. Dr. P. Caselli, Zentrum für Astrochemische Studien
Prof. Dr. R. Genzel, Infrarot- und Submillimeter-Astronomie
Prof. Dr. Frank Eisenhauer, Infrarot- und Submillimeter-Astronomie
Prof. Dr. K. Nandra, Hochenergie-Astrophysik (Geschäftsführung)
Prof. Dr. G. Haerendel (emeritiertes wiss. Mitglied)
Prof. Dr. G. Morfill (emeritiertes wiss. Mitglied)
Prof. Dr. J. Trümper (emeritiertes wiss. Mitglied)

SelbststaendugeNachwuchsgruppen: 1

Dr. S. Spezzano

MivervaFastTrack: 1

Dr. E. Redaelli

Direktionsassisten: 1

Dr. D. Lutz

Pressesprecherin: 1

Dr. H. Hämmerle

Wissenschaftliche Mitarbeiter: 5

Prof. Dr. E. van Dishoeck, Leiden Observatory (Niederlande), MPE
Prof. Dr. J. Kormendy, Univ. of Texas at Austin (USA)
Prof. Dr. R. Z. Sagdeev, Univ. of Maryland (USA)

Dr. K. Schuster, IRAM, Grenoble (Frankreich)
Prof. Dr. A. Sternberg, Tel Aviv University (Israel)

Kuratorium:

Prof. Dr. A. Bode, Leibniz-Rechenzentrum der Bayerischen Akademie der Wissenschaften, Garching
MdB F. Hahn, Deutscher Bundestag, Berlin
Prof. Dr. B. Huber, Präsident der Ludwig-Maximilians-Universität, München
Prof. Dr. A. Kaysser-Pyzalla, Vorstandsvorsitze Deutsches Zentrum für Luft und Raumfahrt (DLR), Köln
Prof. Dr. D. Kranzlmüller, Direktoriumsvorsitzender Leibniz-Rechenzentrum, Garching
Dr. F. Merkle, ehemaliges Vorstandsmitglied OHB System AG, Eching
Dr. U. von Rauchhaupt, Frankfurter Allgemeine Zeitung, Frankfurt/Main
Prof. R. Rodenstock, Rodenstock Geschäftsführungs GmbH, München
Dr. J. Rubner, Vice President Global Communication and Public Engagement, Technische Universität München, München
Dr. M. Weiß, Ressortleiterin Wissen, Süddeutsche Zei-tung, München
MDirig Dr. M. Wolter, Abteilungsleiter Bayer. Staatsministerium für Wirtschaft, Energie und Technologie, München

Fachbeirat:

Prof. Dr. J. Bland-Hawthorn, University of Sydney, Sydney Institute of Astronomy (Australien)
Prof. Dr. C. Canizares, MIT, Kavli Institute, Cambridge (USA)
Prof. Dr. A. Celotti, SISSA, Trieste (Italien)
Prof. Dr. R. Davies, University of Oxford, Department of Physics (UK)
Prof. Dr. A. Goodman, Harvard-Smithsonian Center for Astrophysics, Cambridge (USA)
Prof. Dr. C. Helling, Österreichische Akademie der Wissenschaften, Graz (Österreich)
Prof. Dr. K. Kuijken, Universiteit Leiden, Leiden (Niederlande)
Prof. Dr. E. Sadler, University of Sydney, Sydney (Australien)
Prof. Dr. R. Sari, The Hebrew University of Jerusalem, Jerusalem (Israel)
Prof. Dr. B. Wilkes, Chandra X-Ray Center, Bristol (Vereinigtes Königreich)

Fachübergreifende Fachbeiräte:

Prof. Dr. Richard Ellis, University College London, London (UK)
Dr. Scott Tremaine, Institute for Advanced Study, Princeton (USA)

Wissenschaftliche Auszeichnungen, Berufungen:

Tacconi, L.: Caroline Herschel Medal, Royal Astronomical Society and Astronomische Gesellschaft, Berlin, Germany, 02/2024.
Gerhard, O.: Distinguished Visitor, Research School of Astronomy and Astrophysics, Australian National University, Canberra, Australia, 02/2024.
Bourdarot, G.: Nobel Laureate Fellowship, Max Planck Society, Berlin, Germany, 06/2024.
Saraf, A. M.: SPIE 2024: Best Paper Prize, Yokohama, Japan, 07/2024.
Kluge, M.: Ludwig Biermann Award, German Astronomical Society, Berlin, Germany, 08/2024.
Übler, H.: ERC Starting Grant, European Research Council ERC, Brussels, Belgium, 11/2024.
Bulbul, E.: 2025 MidCareer Prize, High Energy Astrophysics Division of the American Astronomical Society, Washington D.C., USA, 12/2024.

2 Wissenschaftliche Arbeiten

2.1 Wissenschaftliche Arbeitsgruppen

a) Infrarot- und Submillimeter-Astronomie

a_1) *Sekretariat:* Redl, S. (seit 15.11.); Richter, A.; Winter, H. (seit 01.02.)

a_2) *Teamassistentinnen:* Dengler, S. (bis 30.04.); Herfert, B.; Kleiser, A.; Zanker-Smith, J.

a_3) Biondi, Dr. F.; Bourdarot, Dr. G.; Cao, Dr. Y.; Chen, Dr. J.; Davies, Dr. R.; Espejo Salcedo, Dr. J.; Feuchtgruber, Dipl.-Phys. H.; Förster Schreiber, Dr. N.; Gillessen, Dr. S.; Go-pinath, V.; Grant, Dr. S. (bis 30.06.); Jolly, Dr. J.-B.; Kravchenko, Dr. K.; Kurtovic, Dr. N.; Liu, Dr. D (bis 29.02.); Lutz, Dr. D.; More, N. (bis 30.06.); Ott, Dr. T.; Pulsoni, Dr. C.; Rabien, Dr. S.; Shangguan, Dr, J. (bis 13.09.); Shimizu, Dr. T.; Sturm, Dr. E.; Tacconi, Dr. L.; Tozzi, Dr. G. (seit 15.02.); Übler, Dr. H. (seit 01.10.); Widmann, Dr. F. (bis 31.08.)

a_4) *Doktoranden (D.) / Master (M.)*

Barféty, C. (D., Förster Schreiber); Bordoni, M. S. (D., Gen-zel/Gillessen); Drescher, A. (D., Eisenhauer); Joharle, S. (D., Genzel/Gillessen, seit 01.09.24); Lee, L. Y.-L., (D., Tacconi, Förster-Schreiber); Mang, F. (D., Eisenhauer); Shachar, A. N. (D., Sternberg); Pastras, S. (D., Genzel/ Förster Schreiber); Ribeiro, D.(D., Genzel/Gillessen); San-tos, D. (D., Shimizu), Zimmermann, M. (M., Shimizu)

b) Hochenergie-Astrophysik

b_1) *Sekretariat:* Boller, B.

b_2) *Teamassistentin:* Fertig, S. (01.3. - 30.06.); Loparco, G. (seit 01.11.)

b_3) Altmann, A.; Andritschke, Dr. R.; Antonelli, V.; Artis, Dr. E.; Becker, Dr. W.; Behrens, Dr. A.; Boller, Prof. Dr. Th. (bis 30.09.); Buchner, Dr. J.; Buchner, Dr. S.; Bulbul, Dr. E.; Burkert, Dr. W.; Burwitz, Dr. V.; Comparat, Dr., J.; Dakshinamurti, M.Tech., A. (seit 08.01.); Dennerl, Dr. K.; Eder, Dipl.-Ing. J.; Emberger, V.; Freyberg, Dr. M.; Friedrich, Dr. P.; Friedrich, Dr. S.; Gaida, R.; Gatuzz, Dr. E.; Garrel, Dr. C. (bis 30.06.); Ghirardini, Dr. V. (bis 31.03); Gil Leon, J. (seit 1.8.); Gueguen, Dr. A. (bis 31.12.); Greiner, Dr. J.; Haberl, Dr. F.; Hartner, Dipl. Math. G.; Haase, Dr. J. (bis 31.01.); Hauser, G.; Keil, Dr. I (bis 31.03.); Kienlin von, Dr. A; Kink, Dipl. Ing., W.; Kluge, Dr. M.; Liu, Dr. A. (bis 31.12.); Laas, Dr. J.; Liu, Dr. Z. (bis 31.8.); Malavasi, N. (seit 01.02.); Maitra, Dr. Ch.; Meidinger, Dr. N.; Mayr, A.; Merloni, Dr. A.; More, N. (seit 01.10.); Mügge, J.; Müller, T.; Müller-Seidlitz, Dr. J.; Ni, Dr. Q.; Osterhage, Dr. S. (bis 31.1.); Pietschner, D.; Predehl, Dr. P.; Rachovitis, G.; Ramos Ceja, Dr. M.; Rau, Dr. A.; Rukdee, Dr. S.; Salvato, Dr. M.; Sanders, Dr. J.; Schmidt, T.; Schnetler, Dr., H.; Schweingruber, A.; Shirley, Dr. R.; Sgrazzutti, F. (seit 14.10.); Stanke, Dr. Th.; Stewart, Dr. I. ; Trümper, Prof. Dr. J.; Veredas, Dipl. Ing., J.; Zhang, Dr. X.; Zheng, Dipl. Ing. H. (seit 01.04.)

b_4) *Doktoranden (D.) / Master (M.)*

Aydar, C. (D., Merloni); Bacelj, A. (D., Greiner); Bahar, E. (bis 22.09., D., Bulbul); Baldini, P. (D., Rau); Becker, L. (seit 01.09., B, Greiner); Bock, K. (M. Greiner); Camilloni, F. (bis 31.07., D., Becker); Gauger, I. (D., Buchner); Götzberger, N. (seit 06.10., M., Salvato); Grotova, I. (D., A. Rau); Gu-astella, F. (seit 10.10., M., Bulbul); Güthle, T. (seit 01.02., B., Greiner); Kaltenbrunner, D. (D., Haberl); Kassler, L. (B, Greiner); Khrokriakova, A. (D., Becker); Igo, Z. (D., Merloni); Morozs, J. (M., Greiner); Olechovska, A., (bis 31.07., M, seit 01.09., D., Salvato); Ovsiannikova, A. (seit 01.03, M., Greiner); Preis, T., (31.10. M., Greiner); Roster, W. (D., Salvato); Shreeram, S., (D., Comparat); Singh, A., (D., Mohr); Strunk, J. (seit 30.09., M., Bulbul); Teymourzadeh, S. (M., Comparat); Tonelli, G., (seit 15.09., M., Bulbul); Waddell, S. (02.09. D., Nandra, Boller); Wendt-Larsen, M. (13.05.-31.12., B., Greiner); Willer, R. (D., Greiner); Yeung, H.F., (D., Becker); Zhang, Y., (D, Ponti); Zelmer, S. (D, Bulbul); Zheng, X. (D. Ponti)

c) Optische und Interpretative Astronomie

c_1) *Sekretariat:* Ingram, C.

c_2) Bodendorf, Dr. C. (bis 30.06.); Brenninger, K. (seit 11.11.); Bohnet, Dipl. Phys. A.; Burkert, Prof. Dr. A; Contarini, Dr S.; Correa, Dr. C.; DeNicola, Dr. S; Dullius Mallmann,

Dr. N. (seit 01.10.), Erhardt,J. (bis 30.04.); Fabricius, Dr. M.; Gebauer, D. (seit 21.10.), Gerhard, Prof. Dr. O; Gil, L. (seit 01.08.), Gracia Carpio, Dr. J.; Grupp, Dr. F.; Haase, J; Hou, Dr. J.; Hopp, Dr. U.; Kluge, Dr. M.; Lange, J. (bis 30.11.); Lipka, Dr. M. (seit 01.11.); Masoumzadeh Jouzdani Dr. N.; Mehrgan, Dr. K. (bis 14.10.); Neureither, Dr. B.; Paech, Dr. K.; Pezzotta, Dr. A. (bis 30.11.); Raison, Dr. F.; Saglia, PD Dr. R.; Sanchez, PD Dr. A.; Saulder, Dr. C.; Snigula, Dr. J.; Steinwagner, Dr. J. (bis 31.08.); Thomas, Dr. J.; Weller, Prof. Dr. J.; Wetzstein, Dr. M.

c_3) *Doktoranden (D.) / Master (M.)*

Anetjärvi, M. (D., Saglia); Balzer, F. (D., Saglia); Bolze, R. (M., Bender); Blumhof, M. (M., Bender); Delley, D. (D., Saglia); Ding H. (D., Saglia); Esposito, M. (D., Saglia); Fiorilli, A. (D., Saglia) Finkbeiner, L. (M., Fabricius); Gong, L. (D., Bender); Ding, H. (M., Fabricius); Langgassner, F. (D., Fabricius); Luis, T. (D., Saglia); Pandey, A. (D., Gerhard); Pippert, J. (D., Bender); Perez Fernandez, A. (D., Sanchez); Poosch, H. (D., Burkert), Sarrami, M. (D., Gerhard); Shahriyar, M. (bis 31.03., M., Saglia); Thikonenko, I. (D., Saglia)

d) Zentrum für astrochemische Studien

d_1) *Sekretariat:* Langer, A.

d_2) Almeida Ribeiro; Dr. F. (bis 05.01.); Araki; Dr. M.; Bunn, Dr. H.; Busch, Dr. L. (seit 08.01.); Endres, Dr. Ch.; Giuliano, Dr. B.M.; Gieser, Dr. C. (bis 30.11.); Gong, Dr. M.; Hsieh, Dr. T.-H. (bis 25.10.); Ivlev, Dr. A.; Jensen, Dr. S.; Jiménez Redondo, Dr. M.; Jusko, Dr. P.; Quitián-Lara, Dr. H. (seit 01.09.); Lattanzi, Dr. V.; Lin, Dr. Y.; Maureira Pinochet, Dr. M.J.; Pineda Fornerod, Dr. J.; Redaelli, Dr. E. (bis 31.08.); Sipilä, Dr. O.; Spezzano, Dr. S.

d_3) *Doktoranden (D.) / Master (M.)*

Alberton, D. (bis 31.05., D., Caselli); Bethlehem, J. (D., Caselli), Ferrer Asensio, J., (bis 29.02., D., Caselli, Spezzano); Giers, K. (D., Caselli, Spezzano); Husquinet, B. (seit 01.04., D., Caselli); Kakkenpara Suresh, S., (D., Caselli); Obolentseva, M. (bis 29.07., D., Caselli, Ivlev); Pellegrin, Th. (seit 1.10., D., Caselli, Ivlev); Riedel, W. (D., Caselli, Redaelli); Schleif, Ch. (seit 15.10., D., Caselli, Jusko); Schöller, L. (seit 07.10., Caselli, Spezzano); Tabatabaei Mazraeh, F.S. (D., Caselli, Redaelli); Valdivia Mena, M. T. (bis 31.08., D., Caselli, Pineda Fornerod); Vyjidak, A. (D., Caselli, Giuliano); Zamponi Fuentealba, J. (bis 31.01., D., Caselli, Maureira Pinochet)

e) Working Group van Dishoeck

van Dishoeck, Prof. Dr. E.; Grant, Dr. S. (bis 01.09), Kurtovic, Dr. N.

a) Elektronische Entwicklung

Albrecht, Dipl.-Ing. S. (Leitung)Barl, Dipl.-Ing. (FH) L. (bis 29.02.); Bechteler, Dr. T.; Bornemann, Dipl.- Ing. (FH) W.; Burghardt, Dipl.-Ing. (FH) T.; Dickfeld, M.Sc. (FH) F.; Gaida, Dipl.-Ing. (FH) M. (seit 01.08.); Graf, M.Sc. (FH) J.; Hälker, Dipl.-Ing. (FH) O.; Hans, O.; Hartmann, K.; Jilg, Dipl.-Ing. (FH) T.; Lederhuber, M.Sc. A.; Müller, Dipl.-Ing. (FH) S.; Neumeier, M.Sc. L.; Rau, M.Sc. C.; Reiffers, Dipl.-Ing. (FH) J.; Spallek, B.Sc. (FH) L.; Zanker-Smith, J.; Zheng, M.Sc. H. (seit 01.04.); Ziegleder, Dipl.-Ing. (FH) J.

a_1) *Elektronische Werkstatt und Haustechnik*

Oberauer, F. (Leitung)Bachhuber, M. (bis 30.06.); Berger A.; Cibooglu, H.; Greßmann, R.; Treffler, I.; Langer, P.; Özdemir, H.; Schneider R.

a_2) *Doktoranden (D.) / Master (M.)* Satpathy, D. N. (M., Reiffers) (01.04.-31.12.)

b) PersonalMechanik und Testlabor

Lang, Dipl-Phys. F. (Leitung) Antonelli, Dr.-Ing. V.; Deysenroth, C.; Deysenroth, M.; Dittrich, Dipl.- Ing. (FH) K.; Emslander, B. Eng. A.; Hartl, Dr. M.; Haußmann, F.; Hu-

ber, Dipl.-Ing. H.; Mican, Dipl.-Ing. B.; Möller, M. Eng. J.-P.; Mügge, M.Sc., J. (seit 01.10.2023); Paßlack, Dipl.-Ing. (FH) S.; Pflüger, Dipl.-Ing. (FH) A.; Pietschner, Dipl.-Ing. (FH) D.; Rohe, C.; Saraf, M.Sc., A. M.; Sönmez, M. Sc. A.; Strecker, R.; Yazici Dipl.-Phy. S.

b_1) *Mechanische Werkstatt*

Werkstattleitung: Brara, A. Bayer, R.; Bergner, K.; Eibl, J.; Feldmeier, P.; Folek L.; Furchtsam, C.; Furchtsam, S. (bis 31.10.) Goldbrunner, A.; Hartwig, J.; Honsberg, M.; Huber, D.; Kestler, H.-J.; Knapp, S.; Loichinger, L.; Sandmair, R.; Schunn, W.; Schuppe, D.; Soller, F.; Stadler, B.; Stübing, M. (seit 01.02.); Waldhör, F.

b_2) *Auszubildende*

Beck, A.; Fokken M.; Greis, N.; Kellerer, L.; Schaefer, T.; Weber, G.; Krause L. (seit 01.09.)

Zentrale Bereiche

c) Zentrale IT-Gruppe

Bohnet, Dipl. Phys. A. (Leitung)Agudo Berbel, A.; Greck, G ; H.; Grassi, Dr. T.; Kleiser, A.; Klose, L.; Kollmer C.; Laas, Dr. J.; Oberauer, A.; Oberauer L. (seit April); Ott, Dr. T.; Piemonte, A.; Elsner, C.; Snigula, Dr. J.; Wieprecht, Dipl.-Ing. E.

d) Öffentlichkeitsarbeit

Hämmerle, Dr. H.; (Leitung)

Herrmann, T.; Niebisch, B.

e) Bibliothek

Bartels, C. (Leitung)

Balicevic, M.

f) IMPRS

Hilbert, A.

g) Verwaltung

Fischhaber, P. (Leitung VAD) Sekretariat: Friedrich, F. (bis 30.04.), Thapa, I. (seit 01.10.) Adler, K. (seit 01.06.); Arturo, A.; Ayari, S.; Bauer, T.; Brara, S.; Cziasto, U.; Eicher, C.; Eiser, H. (seit 01.07.); Gareva, L.; Goldbrunner, S.; Grohmann, M.; Hartung, I. (bis 31.01.); Hausmann, S.; Hidasi, R.; Jäkel, T.; Jirsch, Y.; Kaps, S. (bis 31.03.); Keil, M.; Keller, M.; Kestler, L.; Konan, E.; Krapivina, A.; Linsel, C. (bis 30.09.); Lopimai, R. (seit 15.09.); Maier, E.; Mandl, E.; Nagy, A.; Neun, A. (BR); Paschou, J.; Preisler, C.; Quanz, A. (seit 01.08.); Rosenberger, S.; Sacher, A.; Schmidt, A.; Schwaiger, S.; Seyfarth, B.; Solbach, M. (seit 15.01.); Stock, C.; Stöckl, D.; Stricker, C.; Studier, S.; Thiess, F.; Thiess, L.; (bis 31.10.); Türksezer, M. (seit 01.09.); Zubanova, E.

3 Lehrtätigkeit, Prüfungen und Gremientätigkeit

3.1 Lehrveranstaltungen / Seminare

Ludwig Maximilian University of Munich (Munich, Germany) Bulbul, E.: Cosmic Plasmas. Ludwig Maximilian University of Munich (Munich, Germany) (SS 24).

Caselli, P.: From atoms to the seeds of life: the astrochemical journey. Online lecture within the Global Astrochemistry Lecture Series (GALS) 2024 (SS 24).

Caselli, P.: From atoms to seeds of life: the astrochemical journey (online). Chalmers Institute of Technology (Gothenburg, Sweden) (SS 24).

Caselli, P.: IMPRS Advanced Course on Astrochemistry and Star/Planet Formation. IMPRS - Max Planck Institute for Extraterrestrial Physics (Garching, Germany) (WS 24).

Eisenhauer, F.: Introduction to Astrophysics. Technical University of Munich (Munich, Germany). (WS 23/24).

Eisenhauer, F.: Introduction to Astrophysics. Technical University of Munich (Munich, Germany). (WS 24/25).

Eisenhauer, F.: High Angular Resolution Astronomy.: Technical University of Munich (Munich, Germany). (SS 24).

Eisenhauer, F.: High Angular Resolution Astronomy: Telescopes, Adaptive Optics, Interferometry, and more. Technical University of Munich (Munich, Germany). (SS 24).

Gillessen, S.: Black Holes - Theory and Observations. LMU (Munich, Germany). (WS 24/25).

Müller, T.: Asteroiden-Astrophysik: Ein aktueller Blick in die Forschung. Akademie für Lehrerfortbildung und Personalführung (Dillingen, Germany). (WS 24).

Müller, T.: Padua Lectures on Advanced Topics in Stellar Dynamics. Dipartimento di Fisica e Astronomia "G. Galilei" Università di Padova (Padua, Italy). (SS 24).

3.2 Organisation von wissenschaftlichen Seminaren / Konferenzen

Users Meeting of Cavity Spectroscopy. Tokyo, 20 December 2024, Organisation: M. Araki, T. Oyama, K. Suma, K. Iwakuni.

From GRAVITY(+) Towards a Kilometers Baseline, Large Telescope Interferometer. Ringberg Castle (Germany), 26.06 - 29.06.2024, Organisation: T. Shimizu, F. Eisenhauer, S. Gillessen, G. Bourdarot.

Large-Scale Structure and Cosmology in the era of SRG/eROSITA and the Other Multiwavelength Surveys. Padova, Italy, 01.07-05.07.2014, Organisation: E. Bulbul, V. Ghirardini, S. Grandis, M. Ramos-Ceja, J. Sanders, A. Merloni, K. Nandra, A. Veronica.

First Results from the SRG/eROSITA All-Sky Survey: From Stars to Cosmology. Munich, 15–20 Sept 2024, Organisation: J. Buchner, E. Bulbul, A. Merloni, K. Nandra, P. Predehl, A. Rau, M. Salvato, E. Artis, C. Aydar, P. Baldini, B. Boller, S. Friedrich, Z. Igo, Y. Zhang.

EAS SS30: Large-Scale Structure and Cosmology in the era of SRG/eROSITA and the Other Multiwavelength Surveys. Padua, Italy, 1 July 2024, Organisation: E. Bulbul (co-chair), V. Ghirardini (co-chair), M. Ramos Ceja, J. Sanders, A. Merloni, K. Nandra, A. Veronica.

eROSITA Clusters and Cosmology Working Group Face to Face Meeting. MPE, 29-31 Oct 2024, Organisation: J. Sanders, E. Artis, M. Kluge, A. Liu.

From star to planet formation. Villa Vigoni, Menaggio, 04.03-08.03.2024, Organisation: M. Benisty, P. Caselli, M. Flock, I. Pascucci , Th. Henning, H. Klar.

COSPAR-2024-F3.1: Chemical Complexity of Molecular Universe. Busan, South Corea, 14.07-18.07.2024, Organisation: A. Das, C. Puzzarini, P. Caselli, N. Mason, Victor. M. Rivilla, B. Sivaraman, T. Shimonishi.

The hot phase of the circum-galactic medium (hot CGM). EAS 2024, Padova, Italy, july 2024, Organisation: G. Ponti, F. van de Voort, C. Peroux, A. Merloni, I. McCarthy , A. Pillepich , P. Popesso.

ORIGINS Lensing Day. Munich, 14.11.2024, Organisation: S. Vegetti, C. O'Riordan, A. Galan , L. R. Ecker.

Tidal Disruption Events and Nuclear Transients: Entering the Data-Rich Era. Heraklion, Greece, 2.9-6.9.2024, Organisation: J. Dai, M. Gromadzki, E. Kara, G. Leloudas, I. Liodakis, A. Merloni, E. Ramirez-Ruiz, A. Zabludoff.

First Results from the SRG/eROSITA All-Sky Survey: From Stars to Cosmology. Garching, Germany, 16.9-20.9.2024, Organisation: J. Buchner (co-chair), E. Bulbul (co-chair), X.

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Europlanet Science Congress, SB12 Centaurs and Trans-Neptunian objects. Berlin, 08.09. - 13.09.2024, Organisation: C. Kiss, R. Duffard.

Diversity, Equity and Inclusion (DEI) seminar. MPE, Since September 2024 and ongoing, Organisation: J. Buchner, M. Salvato, R. Loipimai.

From GRAVITY(+) Towards a Kilometers Baseline, Large Telescope Interferometer. Ringberg, Germany, 26.06.-29.06.2024, Organisation: F. Eisenhauer, G. Bourdarot, S. Gillessen, D. Lutz.

18th IMPRS Student Symposium. Garching near Munich, 14.11.-15.11.2024, Organisation: A. Vani, I. Nikolac, A. Perez, H. Poosch, M. Sarrami, E. Viscardi, A. Vyjidak, Z. Zhang, S. Zelmer, S. Raghuvanshi.

Annual German Labastro Meeting 2024. Ringberg Castle, 25.9-28.9.2024, Organisation: P. Jusko, A. Langer.

IMPRS-Astro Hackathon 2024. Heildelberg, 21.05-24.05.2024, Organisation: C. Aydar, C. Larkin, P. Baldini, F. Schulze, R. Lefever.

2024 STScI Spring Symposium, Recipes to regulate star formation at all scales: from the nearby Universe to the first galaxies. Baltimore, U.S.A., 15.04. - 19.04.2024, Organisation: D. Kakkad, M. Mingozzi, V. Abril Melgarejo, K. Alatalo, T. Fischer, N. M. Förster Schreiber, N. Hathi, T. Heckman, A. Henry, S. Hernandez, B. James, L. Jones, N. Kumari, J. Lee, J. Moreno, N. Reddy, K. Rowlands, N. Roy, L. Smith, A. Yung.

Workshop Prospects for High Resolution Astrophysics. Ringberg, Germany, 23.06. - 26.06. 2024, Organisation: N.M. Förster Schreiber, L.J. Tacconi, R. Genzel, D. Lutz.

European Astronomical Society meeting, S3: New light on galaxies from cosmic dawn to noon. Padova, Italy, 01.07. - 05.07.2024, Organisation: L. Barrufet de Soto, R. Bouwens, M. Bradac, A. Bunker, A. Calabro, S. Charlot, M. Dessauges-Zavadsky, D. Elbaz, A. Ferrara, N.M. Förster Schreiber, L. Graziani, T. Naab, G. Rodighiero, P. Santini, S. Tacchella, H. Übler.

Synergetic ALMA+JWST view of the early universe. Leiden, The Netherlands, 02.12. - 06.12.2024, Organisation: R. Bouwens, N.M. Förster Schreiber, R. Herrera-Camus, J. Silverman, L. Vallini.

Lighting the dark: the fuelling cycle of supermassive black holes across cosmic time. Padova, Italy, Organisation: A. Audibert, F. Combes, R. Davies, M. Gaspari, S. Hoenig, J. Knapen, S. Raimundo.

Preparing for the first light of the Extremely Large Telescope. Padova, Organisation: F. Annibali, B. Brandl, P. Ciliegi, M. Cirasuolo, R. Davies, C. Gruppioni, L. Kaper, A. Marconi, R. Pello, N. Thatte, E. Tolstoy, E. Valenti.

Beyond the Edge of the Universe: Latest results from the deepest astronomical surveys. Sintra, Portugal, 21.10. - 25.10.2024, Organisation: J. Afonso (chair), A. Cimatti, E. da Cunha , M. Dickinson , J. Dunlop , H. Ferguson , M. Giavalisco , K. Kellermann , L. Kewley , M. Magliocchetti, B. Mobasher, R. Norris, L. Pentericci (co-chair), P. Rosati, E. Ryan-Weber, R. Smit, L. Tacconi , S. Vergani.

3.3 Bachelorarbeiten

Abgeschlossen: 7

Grashey, B.: Analysis of Systems and Operations for the Direct Imaging Device SPHERE at ESO VLT. LMU, 2024.

Huber, M.: Mass Determination of the Black Hole in the Centre of the Milky Way. LMU,

2024.

Huber, R.: Neutron Star in X-ray binaries: A comprehensive physical analysis of dynamics, accretion processes and observation methods. LMU, 2024.

Morozs, J.: Temperature Distribution in Massive Cloud Clumps. MPE, 2024.

Nguyen, D.: Mass Measurement of Supermassive Black Holes at the Center of Galaxies. LMU, 2024.

Raasch, C.: Testing the Influence of Clump-Finding Algorithms on the Power Law Index of Core Mass Spectra. MPE, 2024.

Zhong, M.: The Rossiter-Mclaughlin Effect - Measuring the Stellar Rotation Axis through Transits. LMU, 2024.

3.4 Masterarbeiten

Abgeschlossen: 10

Baron Perez, N.: Mass Prediction of eROSITA Galaxy Clusters Using Machine Learning. LMU/MPE, 2022.

Bolzer, M.-L.: Algorithms for image analysis and characterization of circumstellar disks and exoplanets with SPHERE/VLT / High Contrast Imaging Algorithms for Circumstellar Environments and Exoplanets Characterization with SPHERE/VLT Data. MPE/TUM, 2024.

Ding, Ziyu: Cross-Validation of DES-Y3 redMaPPer Clusters Using eROSITA All Sky Survey Data. LMU, 2024.

Gonzalez Villalba, Justo Antonio: Stacking the Spectra of eROSITA Galaxy Cluster Data for Searches of the 3.5keV line: Dark Matter Decay or Charge Exchange?. LMU/MPE, 2022.

Hein, J.: Observations of the JWST of Galaxies at High Redshift. LMU, 2024.

Langgassner, F.: Stellar Populations of Brightest Cluster Galaxies. LMU, 2024.

Makarov, Sergey: Finding Superclusters in the eRASS1. LMU/MPE, 2022.

Pellegrin, T.: Molecular Dynamics Simulations of OPAH Behaviour in the ISM. University of Amsterdam, 2024.

Satpathy, D.N.: Evaluation of Power Conditioning Electronics for the Satellite-Borne X-Ray Wide Field Imager of the NewAthena Project. MPE / TUM, 2024.

Shahriyar, J.: A New Method to Calculate Orbital Phase-Space Volumes in Triaxial Galaxies. Indian Institute of Science Education and Research, Berhampur, 2024.

Laufend:

Alberton, D.: Precursors of Prebiotic Molecules: from laboratory to space. Max Planck Institute for Extraterrestrial Physics, 2024.

Bahar, E.: Astrophysics of Galaxy Clusters and Groups with eROSITA. MPE, 2024.

Camilloni, F.: Supernova remnants and their progenitors: An X-ray study conducted with SRG/eROSITA. Max Planck Institute fof Extraterrestrial Physics, 2024.

Ferrer Asensio, J.: A multidisciplinary approach to star formation: observations and modeling of molecular emission in a pre-stellar core and laboratory spectroscopy of molecules of astrophysical interest. Max Planck Institute for Extraterrestrial Physics, 2024.

Lipka, M.: Inferring the structure of dwarf ellipticals with a novel model selection framework. MPE/LMU, 2024.

Valdivia Mena, M.T.: Asymmetric infall beyond natal cores to protoplanetary disks: Observations and analysis of streamers toward embedded low-mass protostars. Max Planck

Institute for Extraterrestrial Physics, 2024.

4 Veröffentlichungen

4.1 In referierten Zeitschriften

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Woillez J., R. Petrov, R. Abuter, F. Allouche, P. Berio, R. Dembet, F. Eisenhauer, R. Frahm, F. Gonté, X. Haubois, M. Houllé, W. Jaffe, S. Lacour, S. Lagarde, J. Leftley, B. Lopez, A. Matter, A. Meilland, F. Millour, M. Nowak, C. Paladini, T. Rivinius, D. Salabert, N. Schuhler, J. Varga, G. Zins: Gravity for Matisse. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series 13095 (2024).

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4.5 Bücher / Beiträge in Büchern

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Dennerl, K.: Handbook of X-ray and Gamma-ray Astrophysics. (Eds.) C. Bambi, A. Santangelo, Springer Nature Singapore, Singapore, Singapore, p.2897-2920 (2024).

Haerendel, G.: In Book: Alfvén Waves Across Heliophysics: Progress, Challenges, and Opportunities. (Eds.) Andreas Keiling, John Wiley & Sons, Inc., Washington, p.75- 97 (2024).

Kamp, I., D. Galli, Ch. Rab: In Book: Astrochemical Modeling: Practical Aspects of Microphysics in Numerical Simulations. (Eds.) S. Bovino, T. Grassi, Elsevier, Elsevier, p.283-306 (2024).

Meidinger, N., J. Müller-Seidlitz: Handbook of X-ray and Gamma-ray Astrophysics. (Eds.) C. Bambi, A. Santangelo, Springer Nature Singapore, Singapore, Singapore, p.689-708 (2024).

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5 Projekt-Gruppen

5.1 Infrarot- und Submillimeter-Astronomie

Leitung Wissenschaft und Personal: Tacconi

Leitung Finanzen: Lutz.

ERIS: R. Davies, Dengler, M. Deysenroth, Eisenhauer, Feuchtgruber, Hartl, Hartwig, D. Huber, Kleiser, Kravchenko, Pflüger, C. Rau, Sturm.

GRAVITY, GRAVITY+: Bourdarot, Dengler, Drescher, Eisenhauer, Feuchtgruber, Genzel, Gillessen, Gopinath, Graf, Hans, Hartl, Haußmann, Lutz, Mang, More, T. Ott, Pflüger, C. Rau, Ribeiro, Sadun Bordoni, Santos, Shangguan, Shimizu, Sturm, Tacconi, Widmann, Wieprecht, Yazici, Zanker-Smith.

FUTURE INTERFEROMETRY: Bourdarot, Eisenhauer, Gillessen, Lutz, Shimizu

MICADO: Agudo, Barl, Biondi, Cao, R. Davies, Dengler, M. Deysenroth, Eisenhauer, A. Emslander, Förster Schreiber, Geis, Genzel, Gillessen, Graf, Hartl, Haußmann, H. Huber, Jilg, Kleiser, Kravchenko, Lang, Neumeier, Pflüger, Rabien, C. Rau, Sönmez, Spallek, Sturm, Ziegleder.

Galactic Center: Bourdarot, Drescher, Eisenhauer, Genzel, Gillessen, Joharle, Mang, T. Ott, Ribeiro, Sadun Bordoni, Widmann.

Galactic Nuclei: Cao, R. Davies, Genzel, Lutz, Shangguan, Santos, Shimizu, Sturm, Tacconi, Zimmermann.

Galaxies at High Redshift: Barféty, Cao, Chen, Espejo, Förster Schreiber, Genzel, Jolly, L. Lee, D. Liu, Lutz, Pastras, Pulsoni, Sturm, Tacconi, Tozzi, Übler.

Star Formation: Grant, Kurtovic, van Dishoeck.

5.2 Hochenergie-Astrophysik

ATHENA/Mirror: Budau, Burwitz, Hartner, Langmeier, Müller, Passlack, Rukdee, Schmidt.

ATHENA/WFI: Albrecht, Andritschke, Antonelli, Bechteler, Behrens, Bornemann, Dakshinamurthy, Eder, Emberger, Freyberg, Haberl, Hälker, Hartmann, Hauser, v. Kienlin, Lederhuber, Mayr, Mican, Möller, Müller, Müller-Seidlitz, Nandra, Pietschner, A. Rau, Reiffers, Saraf, Schnetler, Schweingruber, Sönmez, Strecker, Pflüger, Veredas.

AXIS: Burwitz, P. Friedrich, Meidinger, Nandra.

Chandra: Burwitz, Predehl

Einstein Probe: Z. Liu, Meidinger, Nandra, Rau.

eROSITA: Andritschke, Becker, Boller, Bornemann, Brunner, Budau, Burghardt, Bulbul, Burwitz, Coutinho, Dennerl, Dittrich, Eder, Eibl, Emberger, Freyberg, P. Friedrich, S. Friedrich, Gaida, Goldbrunner, Gueguen, Haberl, Hartner, F. Huber, Kink, Maitra, Meidinger, Merloni, Mican, S. Müller, Nandra, Ni, F. Oberauer, Pfeffermann, Pietschner, Predehl, Ramos- Ceja, Rau, Rohé, Salvato, Schuppe, Soller, Stewart, Trümper, v. Kienlin

ROSAT: Boller, Freyberg, Haberl, Trümper.

Swift: Greiner

XMM-Newton: Boller, Dennerl, Freyberg, Haberl, Meidinger, Trümper.

Fermi: Collmar, Diehl, Greiner, v. Kienlin.

GROND: A. Rau, Bornemann

INTEGRAL: Diehl, Greiner, v. Kienlin.

MXT-SVOM: Budau, Burwitz, Hartner, Langmaier, Müller, Passlack, Meidinger, Nandra, Rukdee, Schmidt, A. Rau.

eXTP: Altmann, Bechteler, Budau, Burwitz, Hartner, Langmeier, Meidinger, Müller, Nandra, Passlack, Rukdee, Schmidt, Strecker.

SPICE: Andritschke, Antonelli, Bornemann, Hälker, Meidinger, Mügge, Müller, Nandra, Rachovitis, Sanders, Saraf, Strecker, Zheng.

4MOST: Comparat, Laas, Merloni, Salvato, Thi.

Active Galaxies: Boller, Buchner, Collmar, Comparat, T. Liu, Merloni, Nandra, Ni, Salvato.

Clusters of Galaxies: Artis, Bulbul, Kluge, Malavasi, Ramos-Ceja, Sanders, X. Zhang.

eBOSS/SPIDERS: Comparat, Merloni, Nandra, Salvato.

MITA: Andritschke, Hälker, Meidinger, Rachovitis, Strecker

5.3 Optische und Interpretative Astronomie

Large Scale Structure, eBoss, HETDEX: Bender, Contarini, Correa, Fabricius, Hopp, Pezzotta, Sanchez.

EUCLID: Bender, Bodendorf, Fabricius, Garcia Carpio, Grupp, Haase, Hartung, Masoumzadeh, Raison, Saglia, Sanchez, Saulder, Steinwagner, Wetzstein.

Galaxy Dynamics: Bender, de Nicola, Gerhard, Neureiter, Saglia, Thomas.

GRAVITY+: Bender, Fabricius, Graf, Jilg.

MICADO: Bender, Fabricius, Grupp, Saglia, Thomas.

Prime Focus Spectropraph: Bender, Fabricius, Garcia Carpio, Sanchez

Stellar Populations and Galaxy Formation: Bender, Hopp, Saglia.

5.4 Zentrum für astrochemische Studien

Observations: De Oliveira Alves, Hsieh, Jensen, Lin, Maureira Pinochet, Pineda Fornerod, Redaelli, Schmiedeke, Segura-Cox, Spezzano.

Theory: Gong, Grassi, Ivlev, Küffmeier, Nolan, Rab, Silsbee, Sipilä.

Laboratory: Dickfeld, Endres, Gaida, Giuliano, Hans, Jiménez Redondo, Jusko, Lattanzi, Spezzano.

6 Projekte und Kooperationen

6.1 Wissenschaftliche Kooperationen

Australien

CSIRO Astronomy and Space Science, Epping: CAS-Observations, CAS-Theory.

Belgien

Katholieke Universiteit Leuven, Leuven: GRAVITY+

Department of Physics and Astronomy, Gent University EUCLID.

Brasilien

Departamento de Fisica, Universidade Federal de Minas Gerais, Belo Horizonte: CAS-Observatory

Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro, Nilópolis, Brazil: CAS-Laboratory.

IAG/Universidade de Sao Paulo: PFS.

Laboratório Nacional de Astrofísica: PFS.

Universidade Federal de Minas Gerais, Belo Horizonte: CAS-Observations.

Chile

ESO, Joint ALMA Observatory, Santiago de Chile: CASObservations; SBNAF.

NAQAF, Nucleo de astroquimica y astrofisica, Universidad Autónoma de Chile: CAS-Laboratory.

Universidad de Concepcion: Max-Planck-Partnergruppe Baryonischer Zyklus in Galaxien; Röntgen-Doppelstern-systeme; CAS-Observations; Galaxienentwicklung

Universidad Catolica Santiago, Santiago de Chile: Röntgen-Doppelsternsysteme.

Universidad Diego Portales, Santiago de Chile: CAS-Observations.

China

Donghua University, Shanghai: CAS-Theory.

Institute for High-Energy Physics (IHEP), Peking: Gammaquellen mit COMPTEL und INTEGRAL; Einstein Probe; eXTP.

Nanjing University, Nanjing: CAS-Observations.

National Astronomical Observatories of China, Peking: PFS; CAS-Observations; Einstein Probe.

Kavli Institute for Astronomy and Astrophysics at Peking University, Peking: PFS.

Shanghai Jiao Tong University, Shanghai: PFS.

The University of Science and Technology of China: PFS.

Tsinghua University, Peking: PFS.

University of Hongkong, Hongkong: Strahlungsmechanismen von Pulsaren im Röntgen- und Gammabereich.

University of Science and Technology of China, Hefei: PFS.

Xiamen University, Xiamen: PFS.

Research Center for Astronomical Computing, Zhejiang Lab, Hangzhou: CAS-Theory.

Xinjiang Astronomical Observatory, Ürümqi: CAS-Theory.

Dänemark

Dänemarks Technische Universität, Lyngby: ATHENA.

Niels Bohr Institute, University of Copenhagen: CAS-Theory

DTU Space, National Space Institute, Technical University of Denmark: EUCLID, ATHENA.

Deutschland

Astrophysikalisches Institut Potsdam, Potsdam: eROSITA; XMM-Newton; OPTIMA; HETDEX; 4MOST.

Deutsches Elektronen-Synchrotron, Hamburg: CAS-Laboratory.

European Southern Observatory (ESO), Garching: GRAVITY; GRAVITY+; Galaxienentstehung; Nukleare Astrophysik; MICADO; ERIS; Infrared Dark Clouds; CAS-Observations.

Fraunhofer Institut für Integrierte Schaltungen, Erlangen: Mikroelektronikentwicklungen, ASIC manufacturing services; ATHENA.

Fraunhofer Institut for Computer Graphics Research IGD, Darmstadt: IODE.

Heinrich-Heine-Universität, Düsseldorf: Soft Matter Physics.

Institut für Astronomie und Astrophysik Tübingen (IAAT), Tübingen: XMM-Newton; eROSITA; ATHENA WFI; SBODS.

Institut für Astrophysik Göttingen, Göttingen: MICADO

Institut für Festkörperphysik und Werkstoff-Forschung, Dresden: Entwicklung weichmagnetischer Werkstoffe. Institut für Materialphysik im Weltraum, Köln: Glasübergänge.

Landessternwarte Heidelberg-Königstuhl, Heidelberg: Galaxienentstehung.

Ludwig-Maximilians-Universität, München: MICADO; HETDEX; eROSITA.

Max-Planck-Institut für Astronomie, Heidelberg: GRAVITY; GRAVITY+; SDSS; MICADO; EUCLID; CAS-Theory.

Max-Planck-Institut für Astrophysik, Garching: SDSS; OPTIMA; eROSITA; PFS.

Max-Planck-Institut für Biochemie, Martinsried: CAS-Laboratory

Max-Planck-Institut für Physik, Werner-Heisenberg-Institut, München: MPG Halbleiterlabor; ATHENA.

MaxPlanck-Institut für Radioastronomie, Bonn: CAS-Observations; CAS-Theory.

Physikalisch-Technische Bundesanstalt Berlin, Berlin: eROSITA.

Technische Universität Berlin, Berlin: Interstellares Medium.

Technische Universität Darmstadt, Darmstadt: CAST

Technische Universität München, München: Nukleare Astrophysik; ESBO-DS.

Thüringer Landessternwarte Tautenburg, Tautenburg: GROND; Gamma-Ray Bursts.

Universität Bonn, Bonn: ATHENA; eROSITA; EUCLID.

Universität der Bundeswehr, München: SBNAF.

Universität Düsseldorf, Düsseldorf: ERC Advanced Grant; CAS-Theory.

Universität Erlangen (ECAP), Erlangen: eROSITA; ATHENA.

Universität Hamburg, Hamburg: eROSITA; OPTIMA (Flarestars).

Universität Heidelberg, Heidelberg: ATHENA; XFEL; CAS-Theory.

Universität Jena, Jena: Isolierte Neutronensterne; Nukleare Astrophysik.

Universität Kassel, Kassel: CAS-Observations, CAS-Laboratory.

Universität Köln, Köln: Galaktisches Zentrum; GRAVITY; GRAVITY+; CAS-Observations; CAS-Theory; CAS-Laboratory.

Universität Mannheim, Mannheim: ATHENA; XFEL.

Universität Stuttgart, Stuttgart: ESBO-DS; MITA.

Universität Würzburg, Würzburg: AGADE.

Europa

ESA.

Finnland

University of Helsinki, Helsinki: CAS-Theory; CAS-Observations.

University of Turku - Finnish Centre for Astronomy with ESO (FINCA), Turku: MICADO.

University of Helsinki, Department of Physics: EUCLID; CAS-Observations.

Frankreich

Aix-Marseille University, Marseille: CAS-Observations; CAS-Theory.

CEA, Saclay: INTEGRAL-Spektrometer SPI; EUCLID; SVOM; ATHENA.

Centre d'Etude Spatiale des Rayonnements (UPS), Toulouse: INTEGRAL-Spektrometer SPI; CAS-Observations.

Centre National de la Recherche Scientifique, Paris: IN- ODE.

IAP, Paris: Nukleare Astrophysik.

Institut d'Astrophysique de Paris: EUCLID.

IPAG, Grenoble: GRAVITY; GRAVITY+; MICADO; CAS-Theory; CAS-Observations.

IRAM, Saint-Martin-d'Héres: CAS-Observations; Galaxienentstehung.

Laboratoire d'Astrophysique de Marseille (LAM), Marseille: EUCLID; Gamma-Ray Bursts; PFS; CAS-Observations.

Laboratoire Univers et Particules de Montpellier, Montpellier: Cosmic-ray propagation in molecular clouds. Observatoire astronomique de Strasbourg, Strasbourg, ATHENA

Observatoire de la Côte d'Azur Nice (OCA), Nizza: GRAVITY+.

Observatoire de Paris (LERMA), Paris: CAS-Theory.

Observatoire de Paris-Meudon (LIRA, LUX, UNIDIA), Paris: GRAVITY; GRAVITY+; MICADO; Galaktisches Zentrum.

SOLEIL Synchrotron (AILES beamline), Saint-Aubin: CASLaboratory.

Université de Franche-Comté (UTINAM), Besançon: MICADO.

Université de Lyon (CRAL), Lyon: GRAVITY+.

Université de Rennes, Rennes: CAS-Laboratory.

Université de Toulouse, Toulouse: CAS-Observations; CAS-Laboratory.

Universite Paris Diderot, Paris: CAS-Observations.

Université Paris-Saclay, Saclay: CAS-Laboratory.

Griechenland

ATHENA RC, Research and Innovation Centre in Information, Communication and Knowledge Technologies, Athen: INODE.

Infili Technologies, Athen: INODE.

University of Crete and Foundation for Research and Technology Hellas (FORTH), Heraklion: Röntgendoppelsternsysteme; OPTIMA Photometer; Röntgen-AGN.

National Observatory of Athens, Athen: ATHENA; eROSITA.

Großbritannien

Astrophysics Research Group University of Surrey: EUCLID.

John Moores University, Liverpool: Himmelsdurchmusterung Galaxienhaufen; Infrared Dark Clouds; CAS-Observations.

Open University, Milton Keynes: Kataklysmische Variablen; Novae; ATHENA.

Queen Mary University of London, London, UK: CAS-Observations; CAS-Theory.

Science & Technology Facilities Council, Rutherford Appleton Laboratory, Harwell Campus, Oxfordshire: Software License Services for several projects.

United Kingdom Astronomy Technology Centre (UKATC), Edinburgh: EUCLID; ERIS.

University of Cambridge, Cambridge: DES.

University College London, London: High Energy Pulsars; EUCLID; DES; CAS-Observations.

University of Edinburgh, Edinburgh: DES; CAS-Laboratory.

University of Kent, Canterbury: CAS-Theory, CAS-Laboratory.

University of Leeds, Leeds: CAS-Theory.

University of Leicester, Leicester: XMM-Newton; ATHENA; Swift; EUCLID.

University of Nottingham, Nottingham: DES.

University of Portsmouth, Portsmouth: DES.

University of Sussex, Brighton: DES.

University of Southampton, Southampton: GRAVITY+; Magellanic Clouds.

Indien

Tata Institute of Fundamental Research, Mumbai: CAS-Observations.

Irak

University of AL-Muthanna, AL-Muthanna: CAS-Observations.

Irland

National University of Ireland, Galway: High Time Resolution Astronomy; CAS-Theory.

University College Dublin: Fermi/GBM, GRAVITY+

Israel

School of Physics and Astronomy, Wise Observatory, Tel Aviv: Aktive Galaxien; Interstellares Medium; Galaxienentwicklung.

Physics Department, Technion, Haifa: CAS-Theory.

Italien

Free University of Bozen-Bolzano, Bozen: INODE.

IFCAI-CNR Palermo, Palermo: XMM-Newton Beobachtungen von Neutronensternen und Pulsaren.

INAF (Instituto Nationale di Astrofisica), Rom: ATHENA; EUCLID.

INAF Arcetri, Florenz: LBT; ERIS; CAS-Observations; CASTheory.

INAF Padua, Padua: LBT; MICADO; ERIS.

INAF Palermo, Osservatorio Astronomico di Palermo: MITA

INAF Roma, Rom: LBT; Nukleare Astrophysik; EUCLID.

INAF Teramo, Teramo: ERIS.

INAF Trieste, Triest: Gamma-Ray Bursts; Fermi/LAT.

INFN Frascati, Frascati: SIDDHARTA.

Osservatorio Astronomico di Brera, Brera: Himmelsdurchmusterung Galaxienhaufen.

Osservatorio Astrofisico di Catania, Catania: CAS-Laboratory

Scuola Normale Superiore, Pisa: CAS-Observations.

Università degli Studi di Firenze, Florenz: CAS-Observations; CAS-Theory.

Università degli Studi di Milano, Mailand: CAS-Observations

Università degli Studi di Palermo, Palermo: ATHENA, MITA.

Università degli Studi di Torino, Turin: CAS-Observations.

Università di Bologna, Bologna: EUCLID; CAS-Laboratory; CAS-Observations.

Università di Perugia, Perugia: CAS-Observations.

Japan

Academia Sinica, Nangang: PFS.

Chiba University: EUCLID.

Department of Chemistry, Tokyo University of Science, Japan: CAS-Observations.

Department of Physics, Nihon University, Japan: CAS-Observations.

Department of Materials and Life Sciences, Sophia University, Japan: CAS-Observations.

Kavli Institute for the Physics and Mathematics of the Universe, Kashiwa: PFS.

Kobe University, Kobe: CAS-Theory.

National Astronomical Observatory of Japan, Mitaka/ Tokio: CAS-Observations; Galaxienentwicklung; PFS.

Japan Aerospace Exploration Agency, Sagamihara, Kanagawa: SBNAF.

Tokio Institute of Technology (TITECH), Ookayama: ASCA/XMM-Newton Beobachtungen von AGN.

University of Osaka, Osaka: Astro-H.

University of Tokyo, Institutes for Advanced Study (UTIAS), Tokyo: PFS.

University of Tokyo, Tokyo: PFS; CAS-Observations.

Tohoku University, Sendai: Galaxienentwicklung.

Kanada

University of Toronto, Toronto: CAS-Theory.

Department of Physics and Astronomy, University of Waterloo: EUCLID.

Canadian Institute for Theoretical Astrophysics, University of Toronto, Toronto: CAS-Observations, CASTheory.

Department of Astronomy and Astrophysics, University of Toronto, Toronto: CAS-Observations.

Department of Physics and Astronomy, The University of Western Ontario, London: CAS-Observations.

Department of Physics and Astronomy, University of Victoria, Victoria: CAS-Observations.

Department of Physics, Engineering Physics & Astronomy, Queen's University, Kingston: CASObservations.

Department of Physics, University of Alberta, Edmonton: CAS-Observations.

Dunlap Institute for Astronomy and Astrophysics, University of Toronto, Toronto: CAS-Observations.

Herzberg Astronomy and Astrophysics, National Research Council of Canada, Victoria: CAS-Observations.

University of Western Ontario: CAS-Observations, CAS-Theory.

Kolumbien

Universidad del Valle, School of Chemistry, Cali: CAS-Laboratory.

Mexiko

Universidad Nacional Autonoma de México, Coyoacán: GRAVITY+.

Universidad Nacional Autonoma de México, Ensenada: CAS-Observations.

Universidad Nacional Autónoma de México, Morelia: CAS-Observations.

Niederlande

ESTEC, Noordwijk: XMM-Newton; INTEGRAL; EUCLID; ATHENA; eROSITA.

NOVA (Leiden, Groningen, ASTRON/Dwingeloo, Amsterdam): MICADO; ERIS.

Leiden University, Leiden: CAS-Observations; CAS-Theory; IR/Submm Spectroscopy; EUCLID.

Radboud University, Nijmegen: CAS Laboratory.

SRON, Utrecht: Chandra-LETG.

University of Groningen, Kapteyn Institute, Groningen: Rekonstruktion der Dichteverteilung im Universum; EUCLID; Dynamical-Chemical Models; CAS-Theory; CAS-Observations.

Norwegen

Institute of Theoretical Astrophysics, University of Oslo: EUCLID.

Österreich

Institut für Ionenphysik und Angewandte Physik - Molekulare Systeme; Universität Innsbruck: CAS-Laboratory.

Institut für Weltraumforschung, Graz: ATHENA.

Universität und TU Wien: MICADO; ATHENA.

Universität Innsbruck: MICADO.

Universität Linz: MICADO.

RICAM Linz: MICADO.

Institute für Astronomy, Universität Wien: EUCLID.

Polen

Nicolaus Copernicus University, Torun: Pulsars Astronomical Centers; ATHENA.

pace Research Center (CBK), Warschau: ATHENA.

Astronomical Observatory Institute, Poznań: SBNAF. University Zielona Gora: OPTIMA.

Portugal

CENTRA Lissabon und Porto, Lissabon: GRAVITY; GRAVITY+.

Departamento de Física da Faculdade de Ciências da Universidade de Lisboa: EUCLID.

Observatorio Astronomico de Lisboa, Lissabon: ATHE-NA.

Universidade de Coimbra, Coimbra: Departamento de Engenharia Química: CAS-Laboratory.

Rumänien

Institute for Space Science: EUCLID.

Schweden

Chalmers University of Technology, Onsala Space Observatory, Onsala: CAS-Observations.

University Lund/Observatory, Lund: OPTIMA.

Schweiz

CERN, Geneva: CAST.

ETH Zürich, Zürich: ERIS.

Observatoire de Genève Sauverny, Genf: ISDC/INTE-GRAL; Nukleare Astrophysik; EUCLID.

Swiss Institute of Bioinformatics, Lausanne: INODE.

Universität Basel, Basel: Nukleare Astrophysik.

University of Geneva, Genf: ATHENA.

University of Zurich, Zürich: Infrared Dark Clouds.

Zürcher Hochschule für Angewandte Wissenschaften, Zürich: INODE.

Spanien

Centro de Investigaciones Energeticas, Medioambienta-les y Tecnologicas, Madrid: DES.

Centro de Astrobiología (CSIC/INTA), Madrid: CAS-Laboratory; CAS-Theory.

ESAC, Madrid: XMM-Newton Science Operations Center; INTEGRAL Science Operations Center; EUCLID; SBNAF.

Instituto de Astrofísica de Andalucía (IAA), Granada: SB-NAF; ESBO-DS.

Institut d'Estudis Espacials de Catalunya: EUCLID.

Instituto de Astrofísica de Canarias, La Laguna: SBNAF; EUCLID.

Instituto de Ciencias del Espacio, Bellaterra: DES.

Instituto de Ciències de l'Espai, Cerdanyola del Vallès: CAS-Observations.

Institut de Fisica d'Altes Energies, Barcelona: DES; EU-CLID.

valambre Physics of the Accelerating Universe Astrophysical Survey (J-PAS), Javalambre: eROSITA follow up.

SIRIS Academic SL, Barcelona: INODE.

Universitat Autònoma de Barcelona, Bellaterra: CAS-Observations.

Universidad de Huelva: CAS-Laboratory.

Universidad de Valencia, Department de Astronomia, Valencia: INTEGRAL-Spektrometer SPI.

Universidad de Zaragoza, Zaragoza: CAST.

Observatorio Astronómico de Mallorca, Costitx: Novae; Kometen.

Observatorio Astronómico Nacional, Madrid: CAS-Observations.

South Korea

Seoul National University, Seoul: Hayabusa-2.

Taiwan

Academia Sinica Institute of Astronomy and Astrophysics (ASIAA), Taipei: CAS-Theory; CAS-Observations; PFS.

Tschechien

Astronomical Institute of the Czech Academy of Sciences, Prague: ATHENA.

Charles University, Prague: SBNAF; Hayabusa-2.

ept. of Surface and Plasma Science, Faculty of Mathematics and Physics, Charles University, Prague: CAS-Laboratory.

Ungarn

Konkoly Observatory of the Hungarian Academy of Sciences, Budapest: BNAF; CAS-Observations; CAS-Theory.

Institute for Nuclear Research (ATOMKI), Debrecen: CAS-Laboratory.

USA

Argonne National Laboratory, Lemont: DES.

Brookhaven National Laboratory, Upton: strahlenharte JFET-Elektronik; strahlenharte Detektoren.

California Inst. of Technology, Pasadena: X-ray Survey; PFS.

CfA, Cambridge: ATHENA/WFI; XMM-Newton/Chandra Kalibration.

Clemson University, Clemson: Gamma-Ray Bursts; Nukleare Astrophysik.

Columbia University: PFS.

Fermilab, Batavia: DES

Green Bank Observatory, Green Bank: CAS-Observations.

Harvard-Smithsonian Center for Astrophysics, Cambridge: CAS-Observations; CAS-Laboratory; CAS-Theory.

Johns Hopkins University, Baltimore: PFS.

Marshall Space Flight Center, Huntsville: Fermi Gamma-Ray Burst Monitor; XMM-Newton und Chandra, Beobachtungen von Neutronensternen, Pulsaren und Supernova-Überresten.

MIT, Cambridge: ATHENA WFI.

NASA/Ames Research Center, Mofett Field (CA): MHD Shocks; SBNAF.

NASA/Goddard Space Flight Center, Greenbelt (MD): INTEGRAL-Spektrometer SPI; Swift.

NASA/Jet Propulsion Laboratory, Pasadena: EUCLID; PFS; CAS-Observations.

National Radio Astronomy Observatory, Socorro, New Mexico: CAS-Observations.

National Science Foundation, Arlington: CAS-Observations.

NOAO, Tucson: DES.

Ohio State University, Columbus: DES; LBT.

Pacific Northwest National Laboratory (PNNL), Richland: CAST.

Pennsylvania State University, State College: HETDEX; Swift; ATHENA, PFS.

Princeton University, Princeton: PFS; CAS-Theory.

Research Corporation, Tucson: LBT.

San Jose State University, San Jose: MHD shocks.

SLAC, Stanford: CAMP; DES; ATHENA.

Smithsonian Astrophysical Observatory, Cambridge: Chandra-LETGS; Röntgendoppelsterne in M31; ATHENA.

Space Telescope Science Institute, Baltimore: Galaxienentstehung; Turbulence; SBNAF.

Stanford University, Stanford: DES; Fermi/LAT; Fermi/ GBM.

Texas A & M University, College Station: DES; SBNAF.

Texas State University, San Marcos: HETDEX.

University of Arizona, Tucson: Kosmische Strahlung; Planetenentstehung; LBT; CAS-Observations.

University of California, Berkeley: FAST; INTEGRAL-Spektrometer SPI; Superbubbles.

University of California, Santa Cruz: DES.

University of Chicago, Chicago: CAS-Observations; DES.

University of Colorado, Boulder (Co): Superbubbles; CAS-Observations; Galaxien-

kerne.

University of Connecticut: PFS.

University of Florida, Gainesville: Infrared Dark Clouds.

University of Hawaii, Honolulu, Hawaii: CAS-Theory.

University of Illinois, Urbana-Champaign: DES; PFS.

University of Massachusetts, Amherst: CAS-Observations; PFS.

University of Michigan, Ann Arbor: DES; CAS-Observations.

University of Mississippi: CAS-Laboratory.

University of Nevada, Las Vegas: CAS-Observations.

University of Pennsylvania, State College: DES.

University of Pittsburgh, Pittsburgh: Galaxienentstehung; PFS.

University of Texas, Austin: Galaxienentstehung; CAS-Theory.

University of Texas Austin, McDonald Observatory: Hobby-Eberly-Telescope, HETDEX.

University of Texas at El Paso, CAS-Observations: CAS-Theory.

University of Texas, San Antonio: SBNAF.

University of Toledo, Toledo: Galaxienentstehung; CAS-Observations.

University of Virginia, Charlottesville: CAS-Theory; CAS-Observations.

University of Wisconsin-Madison, Madison: CAS-Theory. Yale University, New Haven: CAS-Observations.

6.2 Multinationale Kollaborationen

ASPI - The International Wave Consortium: CNR-IFSI Frascati, Italy; LPCE/CNRS Orleans, France; Dept. of Automatic Control and Systems University of Sheffield, UK.

ATHENA - Advanced Telescope for High Energy Astrophysics: Dänemarks Technische Universität, Dänemark; Nikolaus Kopernikus Astronomical Center, Polen; Universität Wien, Österreich; IWF, Graz; INAF Italy, Italy; CEA Frankreich, Frankreich; University of Leicester, Open University, UK; Institut für Astronomie und Astrophysik Tübingen, Erlangen Centre for Astroparticle Physics (ECAP), Germany; ESA; NOA, Greece; Universität Geneva, Schweiz; Institute for Astrophysics, Portugal; Stanford University, USA.

BOSS - Baryon Oscillation Spectroscopic Survey: SDSSIV Collaboration.

Chandra: Marshall Space Flight Center Huntsville, Massachusetts Institute of Technology Cambridge, Smithsonian Astrophysical Observatory Cambridge, USA; Space Research Institute Utrecht, The Netherlands; Universität Hamburg, Germany.

COSMOS - Cosmological Evolution Survey: INAF-Osservatorio Astronomico di Bologna, INAF-Osservatorio Astronomico di Roma, INAF-Osservatorio Astrofisico di Arcetri, INAF/IASF-CNR, Sezione di Milano, IRA-INAF, Bologna, Dipartimento di Astronomia, Universita Padova, Dipartimento di Fisica, Universita degli Studi Roma Tre, Italy; Harvard-Smithsonian Centre for Astrophysics, Cambridge, Dept. of Physics, Carnegie Mellon University, Pittsburg, Institute for Astronomy, University of Hawaii, California Institute of Technology, Pasadena, Dept. of Astronomy, Yale University, USA; INTEGRAL Science Data Centre, Versoix, Switzerland; Laboratoire d'Astrophysique de Marseille, France.

DES - Dark Energy Survey: LMU München, Excellence Cluster Universe, Germany; The Fermi National Accelerator Laboratory (Fermilab), University of Chicago, NOAO, University of Michigan, University of Pennsylvania, University of Illinois at Urbana-

Champaign, Ohio State University, Texas A&M University, University of California Santa Cruz, Stanford University, SLAC National Accelerator Laboratory, The Lawrence Berkeley National Laboratory, Argonne National Laboratory, USA; University College London, University of Cambridge, University of Edinburgh, University of Portsmouth, University of Sussex, University of Nottingham, UK; Observatorio Nacional, Centro Brasileiro des Pesquisas Fisicas, Universidade Federal do Rio, Brasilien; Instituto de Ciencias dei Espacio, Institut de Fisica d'Altes Energies, Centro de Investigaciones Energeticas Medioambientales y Tecnologicas, Spain.

eBOSS - SDSS-IV Extended Baryon Oscillation Spectroscopic Survey: Carnegie Mellon University (CMU), University of Colorado Boulder, Harvard-Smithsonian Center for Astrophysics Participation Group, Johns Hopkins University, Kavli Institute for the Physics and Mathematics of the Universe, New Mexico State University, New York University, The Ohio State University, Penn State University, University of Utah, University of Wisconsin, Yale University, USA; Max-Planck-Institut fuer Astrophysik (MPA Garching), Max-Planck-Institut für extraterrestrische Physik (MPE), Max-Planck-Institut für Astronomie (MPIA Heidelberg), Germany; National Astronomical Observatories of China, Shanghai Astronomical Observatory, China; United Kingdom Participation Group, University of Portsmouth, UK.

ERIS - Enhanced Resolution Imager and Spectrograph for the VLT: ESO, Germany; ETH Zürich, Switzerland; INAF Arcetri (with OAA, OATe and OAPd), Italy; UKATC Edinburgh, Scotland; NOVA Leiden, The Netherlands.

EinsteinProbe – Chinese Acadamy of Science, Institute of High Energy Physics, National Astronomical Observa-tories, China, ESA.

eROSITA - extended Roentgen Survey with an Imaging Telescope Array: AIP Potsdam, Universität Tübingen, Universität Bonn, Universität Erlangen, Universität Hamburg, Remeis-Sternwarte Bamberg, MPA Garching, LMU (USM) München, Germany; IKI Moskau, Russia.

ESBO-DS - European Stratospheric Balloon Observatory – Design Study, EU H2020 project; University of Stuttgart, University of Tübingen, Germany; Swedish Space Corporation, Sweden; Instituto de Astrofísica de Andalucía, Spain.

EUCLID - ESA Mission to map the Dark Energy: ESA; Institut d'Astrophysique de Paris, France; Institute fur Astronomy, Universitat Wien, Austria; Department of Physics and Astronomy, Ghent University, Belgium; Department of Physics and Astronomy, University of Waterloo, Canada; DTU Space, National Space Institute, Technical University of Denmark, Denmark; University of Helsinki, Department of Physics, Finland; Laboratoire d'Astrophysique de Marseille, Technopole de Marseille-Etoile, France; CEA/DSM/Irfu/Service d'Astrophysique, CE Saclay, France; Max-Planck-Institute for Extraterrestrial Physics, Ger-many; Max Planck Institute for Astronomy, Germany; Dipartimento di Fisica e Astronomia, Universita di Bologna, Italy; INAF-Osservatorio di Roma, Italy; Chiba University, Japan; Leiden Observatory, Universiteit Leiden, Nether-lands; Institute of Theoretical Astrophysics, University of Oslo, Norway; Departamento de Física da Faculdade de Ciências da Universidade de Lisboa, Portugal; Institut d'Estudis Espacials de Catalunya, Spain; Instituto de As-trofisica de Canarias, Spain; Institute for Space Science, Romania; Physique Théorique, Université de Genève, Switzerland; Physics Department, Lancaster University, UK; Astrophysics Research Group, University of Surrey, UK; NASA Jet Propulsion Laboratory, USA.

Fermi/GBM - Fermi Gamma-Ray Burst Monitor: Marshall Space Flight Center Huntsville, University of Huntsville, USA.

Fermi/LAT - Fermi Gamma-Ray Large Area Space Telescope: Stanford University Palo Alto, Naval Research Laboratory Washington DC, Sonoma State University Rohnert Park, Lockheed Martin Corporation Palo Alto, University of California Santa Cruz, University of Chicago, University of Maryland Greenbelt, NASA Ames Re-search

Center Moffett Field, NASA Goddard Space Flight Center for High Energy Astrophysics Greenbelt, Boston University, University of Utah Salt Lake City, University of Washington Seattle, SLAC Particle Astrophysics Group Palo Alto, USA; ICTP and INFN Trieste, Instituto Nacionale di Fisica Nucleare Trieste, Italy; University of Tokyo, Japan; CEA Saclay, France.

GRAVITY - Instrument for VLT Interferometry: MPIA Heidelberg, Universität Köln, ESO Garching, Germany; CEN-TRA Lisbon and Porto, Portugal; IPAG Grenoble, Observatoire de Paris / Meudon (LIRA), France.

GRAVITY+ - VLT Interferometry upgrade project: MPIA Heidelberg, Universität Köln, ESO Garching, Germany; CENTRA Lisbon and Porto, Portugal; IPAG Grenoble, Observatoire de Paris / Meudon (LIRA), OCA Nice, CRAL Lyon, France; University of Southampton, UK; KU Leuven, Belgium; University College Dublin, Ireland; Universidad Autonoma de México, Mexico.

HETDEX - Hobby-Eberly Telescope Dark Energy Experiment: University of Texas, Austin, Pennsylvania State University, Texas A&M University, USA; AIP Potsdam, LMU, USM, Germany.

INODE - Intelligent Open Data Exploration: Zürcher Hochschule für Angewandte Wissenschaften, ATHENA RC, Research and Innovation Center in Information, Communication and Knowledge Technologies, Fraunhofer Institute for Computer Graphics Research IGD, Infli Technologies Private Company, Center National de la Recherche Scientifique, SIRIS Academic SL, Swiss Institute of Bioinformatics, Free University of Bozen-Bolzano.

INTAS - Cooperation of Western and Eastern European Scientists: France, Germany, Norway, Russia.

ISDC - INTEGRAL Science Data Centre: Observatoire de Geneva Sauverny, Switzerland; Service d'Astrophysique Centre d'Etudes de Saclay, France; Rutherford Appleton Laboratory Oxon Dept. of Physics University Southampton, UK; Institut für Astronomie und Astrophysik Tübingen Germany; Danish Space Research Institute Lyngby, Denmark; University College Dublin, Ireland; Istituto di Fisica Milano, Instituto die Astrofisica Spatiale Frascati, Italy; N. Copernikus Astronomical Center Warsaw, Poland; Space Research Institute of the Russian Academy of Sciences Moscow, Russia; Laboratory for High Energy Astrophysics GSFC Greenbelt, USA.

INTEGRAL-Spectrometer SPI: Centre d'Etude Spatiale des Rayonnements (CESR) Toulouse, CEA Saclay Gif-sur-Yvette, France; University de Valencia Burjassot, Spain.

LBT - Large Binocular Telescope Project: MPIA Heidelberg, MPIfR Bonn, Landessternwarte Heidelberg Königstuhl, AIP, Germany; University of Arizona, Tucson, Ohio State University, Columbus, Research Corporation, USA; INAF, Italy.

MICADO - Multi-Adaptive Optics Imaging Camera for Deep Observations: ESO, LMU (USM), MPIA Heidelberg, IAG Göttingen, Germany; INAF-OAPD Padova, INAF-OAR Roma, Italy; A* (an Austrian partnership comprising the University of Vienna, the University of Innsbruck, the University of Graz, and the University of Linz [with RICAM Linz]; specific contributions to MICADO come from Vienna/Innsbruck/Linz), Austria; NOVA (a federation several astronomical institutes; specific contributions to MICADO come from the University of Groningen, the University of Leiden, and the NOVA optical/infrared instrumentation group based at ASTRON in Dwingeloo), The Netherlands; CNRS/INSU (representing LIRA, LUX, and UNIDIA, Paris, IPAG, Grenoble and UTINAM, Besançon), France; FINCA (University of Turku) Turku, Finland.

MXT - Microchannel X-Ray Telescope for Gamma-Ray Bursts: CEA, Saclay, France; University of Leicester, UK.

OPTIMA: AIP, MPI für Astrophysik, Universität Hamburg, Germany; University of Crete, Greece; University Zielona Gora, Poland; University Lund/Observatory, Schweden.

PFS - The Subaru Prime Focus Spectrograph Collaboration: PFS - The Subaru Prime

Focus Spectrograph Collaboration: Kavli Institute for the Physics and Mathematics of the Universe, Japan; The University of Tokyo Institutes for Advanced Study (UTIAS), University of Tokyo, Japan; National Astronomical Observatory of Japan; Academia Sinica, Institute of Astronomy and Astrophysics, Taiwan; California Institute of Technology, USA; NASA Jet Propulsion Laboratory, USA; Laboratoire d'Astrophysique de Marseille, France; Princeton University, USA; Johns Hopkins University, USA; IAG/Universidade de Sao Paulo, Brazil; Laboratório Nacional de Astrofísica, Brazil; Max-Planck-Institut für Astrophysik, Garching; Shanghai Jiao Tong University, China; National Astronomical Observatories of China; Tsinghua University, China; The University of Science and Technology of China; Xiamen University, China; Peking University , China; Columbia University, USA; Tufts University, USA; University of Connecticut, USA; University of Illinois at Urbana-Champaign, USA; University of Pittsburgh, USA; University of Massachusetts Amherst, USA; Pennsylvania State University, USA.

SBNAF - Small Bodies Near and Far, EU H2020 project; Poznań, Poland; Instituto de Astrofísica de Andalucía, Granada, Instituto de Astrofísica de Canarias (IAC), Spain; Konkoly Observatory, Budapest, Hungary; Institute of Space and Astronautical Science (ISAS, JAXA), Kanagawa, Japan.

SDSS - Sloan Digital Sky Survey: MPA Garching, MPIA Heidelberg, Germany; Univ. of Washington, Seattle, Fermi National Accelerator Laboratory, Batavia, University of Michigan, Ann Arbor, Carnegie Mellon University, Pitts-burgh, Penn State University, University Park, Princeton University Observatory, Princeton, Institute of Advanced Study Princeton, Space Telescope Science Institute, Baltimore, Johns Hopkins Univ. Baltimore, USA.

Swift - Gamma-Ray Burst Mission: NASA/GSFC Greenbelt, Penn State University, USA; University of Leicester, Mullard Space Science Laboratory London, UK; Osservatorio Astronomico Brera, Italy.

XMM-Newton/SSC (Survey Science Center): AIP, Germany; SAP Saclay, CDS Strasbourg, CESR Toulouse, France; University of Leicester, Institute of Astronomy Cambridge, MSSL London, UK.

XMM-Newton/EPIC (European Photo Imaging Camera): SAP Saclay, IAS Orsay, CESR Toulouse, France; University of Leicester, University Birmingham, UK; CNR Mailand-Palermo-Bologna-Frascati, Osservatorio Astronomico Mailand, Italy; Institut für Astronomie und Astrophysik Tübingen, Germany.

6.3 Industrielle Kollaborationen

3d shape GmbH, Erlangen: Metrology for slumped glass mirror study.

ABN GmbH, Neuried: Ongoing servicing of the MPE test facility PANTER.

ACM GmbH, Naumburg - Acktar Ltd., Kiryat-Gat, Israel: Schwärzen für EUCLID.

af inventions, Braunschweig: FPGA Programmierung für eROSITA.

AHC Oberflächentechnik GmbH / Aalberts Surface Technologies GmbH: coating for MICADO

ALPAO, Montbonnot-Saint-Martin, France: GRAVITY+ de-formable mirrors.

Alwin Müller GmbH & Co. KG, Nürnberg: Oberflächenbeschichtung vieler Projekte.

Ariane Group GmbH, Munich: EUCLID design study, eROSITA, ATHENA, Oberflächenbeschichtung und cleanliness control EinsteinProbe.

Array Electronics, Egmating: DAQ development OPTIMA.

BASF Coatings AG, Münster: Investigations on the scattering properties of micro particles.

Bräuninger & Konstruktionen, Neuried: Construction and manufacturing of labora-

tory equipment.

Buchberger GmbH, Tuchenbach: Manufacturing of parts for PANTER manipulators.

Carl Zeiss QEC GmbH, Garching b. München, Deutschland: Messdienstleistungen, EinsteinProbe.

Christian Rehm - ISKON, Isen: Design and mechanical engineering for MICADO, GRAVITY+.

CryoVac GmbH, Troisdorf: MICADO Cryostat.

DHL Special services, Flughafen München, EinsteinProbe.

DicoSolutions, München: eROSITA Betrieb.

DoKaSch TEMPERATURE SOLUTIONS GmbH, Kelsterbach, Deutschland: klimatisierte Frachtcontainer, EinsteinProbe.

ECM Engineered Ceramic Materials GmbH, Moosinning: Hersteller von CESIC.

EATON Powering Business Worldwide, Camarillo, CA, USA: Actuators separation-nuts for eROSITA.

First Light Imaging, Meyreuil, France: GRAVITY+ wave-front sensor cameras.

Fraunhofer IOF, Jena: Mirror development for MICADO. Freyer GmbH, Tuningen: PANTER.

Frühschütz Lohngalvanik GmbH, Penzberg: Oberflächenbeschichtung vieler Projekte.

Gräfe Spezialoptik GmbH, Camburg: Zerodur-Materialbearbeitung und -Lieferant.

Hans Englert GmbH, Berlin: Manufacturing of front panels and metering devices.

HERMLE AG, Gosheim, Milling Machines, MPE Work-shop.

Hochschule München, Laserlabor, Prof. Heinz Huber, München: Materialbearbeitung mit Ultrakurzpulsarlaser.

Industrieanlagen – Betriebsgesellschaft mbH (IABG), Ottobrunn: Testanlagen, Luftfahrtsicherheit, EinsteinProbe.

Ingenieurbüro Josef Eder, Hilgertshausen: System engineering for eROSITA, ATHENA, Einstein Probe.

Ingenieurbüro Weisz, München: Design and mechanical engineering for MICADO and GRAVITY+.

Ingenieurbüro Michael Kautz, Regensburg, Design and mechanical engineering for CAS.

Kampf Telescope Optics (KTO), München: Design & System Engineering for MICADO.

LaserJob GmbH, Fürstenfeldbruck, Deutschland: Präzisions-Laserzuschnitt und Schweißen EinsteinProbe.

LEX GmbH, Miesbach, Deutschland: Mechanische Fertigung, ATHENA, Einstein-Probe.

LT Ultra, Herdwangen-Schönach: Spiegelhersteller.

Feinmechanische Werkstätte Thomas Markl GmbH, Deisenhofen; eROSITA.

GEWO Feinmechanik GmbH, Hörlkofen: EinsteinProbe, MICADO.

Media Lario Srl, Bosisio Parini, Italien: eROSITA, Einstein-Probe.

OHB System AG, München: EUCLID design study.

Peter Blank GmbH, Aschaffenburg: Mechanische Fertigung MICADO, GRAVITY+.

Peter Feckl Maschinenbau GmbH, Forstern: Spiegelmodule EinsteinProbe.

Physik Instrumente (PI), Karlsruhe: Präzisions-Positionier-Systeme.

Plappert Industrieanlagen GmbH, Schorndorf: Design and mechanical engineering for MICADO Handling Tools.

Qioptic GmbH, Feldkirchen: Oberflächenbeschichtung vieler Projekte.

ilicon Solutions & Consulting GmbH, Ketsch: ASIC de-sign and test support for ATHENA.

Steinmeyer Mechatronik, Dresden: GRAVITY+ translational stages.

Tafelmaier Dünnschicht-Technik, Rosenheim: Optical Coatings, GRAVITY+.

Unholtz-Dickie Corp., Wallingford, USA: Shaker System, MPE Test Facility.

Xtended Engineering GmbH, München: RF electronics engineering services for CAS.

SGM GmbH, Geretsried: Athena_WFI

Thoma-Tec, Bodenkirchen: Micado, CAS.

BGS Präzisionstechnik GmbH, Geretsried: Micado, Athena, CAS.

Minovatec GmbH: Fertigung für CAS.

Kirpal Nandra