

PUBLICATIONS AND TALKS

Author / Lecturer

- F. Topf and M. Scherf**, *“Virtuelle Observatorien am Beispiel des EU-Projektes IMPEX – Eine Einführung”*
Talk at the Summer University „Graz in Space 2014“, Karl Franzens Universität, Graz, Austria September 2014
(Abstract: <http://grazinspace.oeaw.ac.at/abstracts/pdf/topf.pdf>)
- F. Topf et al.**, *“IMPEX – a web-based distributed research environment for planetary plasma science”*
Poster at the “European Geosciences Union 2014” Conference, Vienna, Austria April 2014
(Abstract: <http://meetingorganizer.copernicus.org/EGU2014/EGU2014-6437.pdf>)
Poster: <http://docs.floriantopf.com/pubs/poster-egu-2014.pdf>)
- F. Topf**, *“Prototype of a Portal for Scientific Data Access Based on Scala”*
Master’s Thesis at the University of Applied Sciences FH Campus 02, Graz, Austria December 2013
(Full paper: <http://docs.floriantopf.com/pubs/IMPEX-Portal-MAS-FlorianTopf.pdf>)
Presentation: <http://docs.floriantopf.com/pubs/MAS-Presentation-FlorianTopf.pdf>)
- F. Topf et al.**, *“Coordinated Observations within EuroPlaNet – The NA1 Matrix”*
Talk at the “Europlanet in IDIS” Workshop, Vienna Austria November 2012
- F. Topf et al.**, *“Planetary Science Research with the IMPEX Infrastructure”*
Talk at the “European Planetary Science Congress 2012”, Madrid, Spain September 2012
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2012/EPSC2012-129-3.pdf>)
- F. Topf and M. Scherf**, *“Moderne Informationstechnologien in Planetologie und Weltraumwissenschaften – Teil 2: Virtuelle Observatorien (VOs) und Anwendungsbeispiele”*
Talk at the Summer University “Graz in Space 2012”, Space Research Institute, Graz, Austria September 2012
(Abstract: http://grazinspace.oeaw.ac.at/index.php?page=abs_topf_two)
- F. Topf**, *“IMPEX – A service oriented space plasma physics virtual observatory”*
Bachelor’s Thesis at the University of Applied Sciences FH Campus 02, Graz, Austria July 2012
(Full paper: <http://docs.floriantopf.com/pubs/IMPEX-BAC-FlorianTopf.pdf>)
- F. Topf et al.**, *“Venus magnetosphere studies under the aspect of modern information technologies in the field of plasma physics”*
Talk at the “DPG Frühjahrstagung der Sektion AMOP 2012”, University of Stuttgart, Germany March 2012
- F. Topf**, *“Service Oriented Architectures in Planetary Sciences”*
Bachelor’s Thesis at the University of Applied Sciences FH Campus 02, Graz, Austria February 2012
(Full paper: <http://docs.floriantopf.com/pubs/SOA-BAC-FlorianTopf.pdf>)
- F. Topf et al.**, *“SOAP based web services and their future role in VO projects”*
Talk at the “European Planetary Science Congress 2011”, Nantes, France October 2011
(Abstract: <http://adsabs.harvard.edu/abs/2011epsc.conf..205T>)
- F. Topf**, *“The EuroPlaNet IDIS Plasma Node and related Virtual Observatories”*
Guest lecture for the Seminar “Messmethoden der Weltraumphysik und Aeronomie” at the Institute for Physics, Karl-Franzens Universität, Graz, Austria March 2011
- F. Topf**, *“IMPEX – Integrated Medium for Planetary exploration”*

- Talk at the „IDIS General Meeting 2011“, Paris, France February 2011
- F. Topf**, *“Query a distant database using a SPASE-based connector”*
Talk at the „IDIS General Meeting 2011“, Paris, France February 2011
- F. Topf et al.**, *“Modern visualization techniques in full-dome Planetaria: Where art, technology and science meet together”*
Talk at the „European Planetary Science Congress 2010“, Rome, Italy September 2010
(Abstract: <http://meetings.copernicus.org/epsc2010/abstracts/EPSC2010-88-3.pdf>)
- F. Topf**, *“The EuroPlanet IDIS Plasma Node and related Science Cases: Overview of JRA-IDIS (WP#25) and SA-IDIS (WP#21)”*
Guest lecture for the Seminar “Messmethoden der Weltraumphysik und Aeronomie” at the Institute for Physics, Karl-Franzens Universität, Graz, Austria March 2010
- F. Topf et al.**, *“JRA3 / EMDAF: Its cooperation and common tasks with IDIS (JRA4 / WP25: Integrated Distributed Information Service)”*
Talk at the “European Planetary Science Congress 2009”, Potsdam, Germany September 2009
(Abstract: <http://adsabs.harvard.edu/abs/2009epsc.conf...89T>)
- F. Topf et al.**, *“The IDIS Planetary Plasma Node: structure, objectives and services offered to the community”*
Talk at the “European Planetary Science Congress 2009”, Potsdam, Germany September 2009
- F. Topf**, *“EuroPlaNet – Planetologie in Europa”*
Talk at the Summer University “Graz in Space 2008”, Karl Franzens Universität, Graz, Austria September 2008
(Abstract: <http://physik.uni-graz.at/grazinspace/2008/topf.php>)
- Co-Author**
- T. Al-Ubaidi et al.**, *“The IMPEX Protocol – building bridges between scientific databases and online tools”*
Talk at the “European Planetary Science Congress 2014”, Estoril, Portugal September 2014
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2014/EPSC2014-159.pdf>)
- M. Gangloff et al.**, *“IMPEX SimDM, a metadata model to search an exchange simulation data in the field of plasma and planetary physics”*
Poster at the “European Planetary Science Congress 2014”, Estoril, Portugal September 2014
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2014/EPSC2014-250.pdf>)
- B. Cecconi et al.**, *“Using EPN-TAP to share data between the HELIO and IMPEX project”*
Poster at the “European Planetary Science Congress 2014”, Estoril, Portugal September 2014
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2014/EPSC2014-685.pdf>)
- M. Scherf and F. Topf**, *“Virtuelle Observatorien am Beispiel des EU-Projektes IMPEX – Eine Demo-Tour”*
Talk at the Summer University „Graz in Space 2014“, Karl Franzens Universität, Graz, Austria September 2014
(Abstract: <http://grazinspace.oeaw.ac.at/abstracts/pdf/scherf.pdf>)
- M. Scherf and F. Topf**, *“Interaktive Datenanalyse-Tools in Planetologie und Weltraumforschung”*
Guest lecture for the Seminar “Messmethoden der Weltraumphysik und Aeronomie” at the Institute for Physics, Karl-Franzens Universität, Graz, Austria May 2014
(Seminar overview: <http://seminar.floriantopf.com/>)

- V. Génot et al.**, *“Model/observational data cross analysis in planetary plasma science with IMPEX”*
Talk at the “American Geophysical Union 2013” Conference, San Francisco, USA
(Abstract: <http://labs.adsabs.harvard.edu/adsabs/abs/2013AGUFMSM21A2136G/>)
December 2013
- S. L. G. Hess et al.**, *“IMPEX Simulation Data Model, an extension to SPASE”*
Talk at the Workshop “Ensuring the Long-Term preservation and value Adding to the to Technical Data” PV 2013, Frascati, Italy
November 2013
- V. Génot et al.**, *“IMPEX, a FP7 infrastructure for joint analysis of planetary plasma data following the Virtual Observatory paradigm”*
Talk at the Workshop ““Ensuring the Long-Term preservation and value Adding to the to Technical Data” PV 2013, Frascati, Italy
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- S. L. G. Hess et al.**, *“Theoretical VO: description of models and simulations in IMPEX”*
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(Abstract: <http://meetingorganizer.copernicus.org/EPSC2013/EPSC2013-222.pdf>)
September 2013
- V. Génot et al.**, *“IMPEX: enabling model/observational data comparison in planetary plasma sciences”*
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(Abstract: <http://meetingorganizer.copernicus.org/EPSC2013/EPSC2013-222.pdf>)
September 2013
- R. Modolo et al.**, *“Numerical modelling databases and visualisation tools within the IMPEX infrastructure”*
Talk at the “8th International Conference on Numerical Modelling of Space Plasma Flows”, Biarritz, France
July 2013
- V. Génot et al.**, *“The FP7 IMPEX Project: Simultaneous Access to Simulations and Observational Data for Planetary Plasmas”*
Talk at the “Annual Meeting of the Asia Oceania Geosciences Society 2013”, Brisbane, Australia
June 2013
- M. Scherf and F. Topf**, *“Interaktive Datenanalyse-Tools in Planetologie und Weltraumforschung”*
Guest lecture for the Seminar “Messmethoden der Weltraumphysik und Aeronomie” at the Institute for Physics, Karl-Franzens Universität, Graz, Austria
April 2013
- V. Génot et al.**, *“Interoperability of the analysis tools within the IMPEX project”*
Poster at the “European Geosciences Union 2013” Conference, Vienna, Austria
(Abstract: <http://meetingorganizer.copernicus.org/EGU2013/EGU2013-5458.pdf>)
April 2013
- E. J. Kallio et al.**, *“HWA modelling web services for the IMPEX infrastructure”*
Poster at the “European Geosciences Union 2013” conference, Vienna, Austria
(Abstract: <http://meetingorganizer.copernicus.org/EGU2013/EGU2013-7859.pdf>)
April 2013
- T. Al-Ubaidi et al.**, *“Preparing for joint operation of numerical modelling and observational data in IMPEX”*
Talk at the “European Geosciences Union 2013” Conference, Vienna, Austria
(Abstract: <http://meetingorganizer.copernicus.org/EGU2013/EGU2013-8482.pdf>)
April 2013
- S. L. G. Hess et al.**, *“Le project IMPEX – Partager et analyser données observationnelles et simulées”*
Talk at the at the “Action Spécifique Observatoires Virtuels” annual meeting, Paris, France
March 2013
- S. L. G. Hess et al.**, *“IMPEX Simulation Data Model: an extension to SPASE for the description of simulation runs”*
Poster at the “American Geophysical Union 2012” Conference, San Francisco, USA
(Abstract: <http://labs.adsabs.harvard.edu/adsabs/abs/2012AGUFMSM31D..04H/>)
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- N. André et al.**, *“Access and scientific exploitation of planetary plasma datasets with the CDPP/AMDA web-based facility in relation to the Europlanet-RI IDIS plasma node activities”*
Talk at the “European Planetary Science Congress 2012”, Madrid, Spain September 2012
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2012/EPSC2012-387-1.pdf>)
- V. Génot et al.**, *“Capabilities of the analysis tools of the IMPEx infrastructure”*
Poster at the “European Planetary Science Congress 2012”, Madrid, Spain September 2012
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2012/EPSC2012-152.pdf>)
- E. J. Kallio et al.**, *“Numerical Simulation Tools of the IMPEx Infrastructure”*
Poster at the “European Planetary Science Congress 2012”, Madrid, Spain September 2012
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2012/EPSC2012-337.pdf>)
- S. L. G. Hess et al.**, *“IMPEx Data Model: a simulation extension to the Spase data model.”*
Poster at the “European Planetary Science Congress 2012”, Madrid, Spain September 2012
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2012/EPSC2012-360.pdf>)
- M. S. Blokhina et al.**, *“Saturn and Earth polar oval position forecast by IMPEx infrastructure Web services based on the Paraboloid magnetospheric model”*
Talk at the “European Planetary Science Congress 2012”, Madrid, Spain September 2012
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2012/EPSC2012-449-1.pdf>)
- B. Renard et al.**, *“Connection between the CDPP/AMDA and IVOA Tools”*
Talk at the “European Planetary Science Congress 2012”, Madrid, Spain September 2012
(Abstract: <http://meetingorganizer.copernicus.org/EPSC2012/EPSC2012-450.pdf>)
- N. Bourrel et al.**, *“Accessing planetary plasma datasets via the TAP and PDAP protocols”*
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(Abstract: <http://meetingorganizer.copernicus.org/EPSC2012/EPSC2012-578.pdf>)
- M. Scherf and F. Topf**, *“Moderne Informationstechnologien in Planetologie und Weltraumwissenschaften – Teil 1: Virtuelle Observatorien (VOs) und Anwendungsbeispiele”*
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(Abstract: http://grazinspace.oeaw.ac.at/index.php?page=abs_scherf_one)
- M. Gangloff et al.**, *“IMPEx - An Infrastructure for Joint Analysis of Space Missions and Computational Modelling Data in Planetary Science”*
Talk at the “39th COSPAR Scientific Assembly 2012” Conference, Mysore, India July 2012
- T. Al-Ubaidi et al.**, *“Integrated Medium for Planetary Exploration (IMPEx): an infrastructure to bridge space mission data and computational models in planetary science.”*
Talk at the “Planetary Data Workshop for Users and Software Developers”, Flagstaff, USA June 2012
- N. André**, *“Access and scientific exploitation of planetary plasma datasets with the CDPP/AMDA web-based facility in relation to the EuroPlaNet-RI IDIS plasma node activities”*
Talk at the “Japan Geosciences Union (JpGU) 2012” Conference, Chiba, Japan May 2012
- M. L. Khodachenko et al.**, *“Integrated Medium for Planetary Exploration (IMPEx): an infrastructure to bridge space missions data and computational models in planetary science”*

- Talk at the “European Geosciences Union 2012” Conference, Vienna, Austria
(Abstract: <http://adsabs.harvard.edu/abs/2012EGUGA..14.2258K>) April 2012
- M. L. Khodachenko et al.**, “*Integrated Medium for Planetary Exploration (IMPEX): a new EU FP7-SPACE project*”
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- M. Gangloff et al.**, “*A prototype of Virtual Observatory access for planetary data in the framework of EuroPlaNet-RI/IDIS*”
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(Abstract: <http://adsabs.harvard.edu/abs/2011AGUFMSM21A1995G>) December 2011
- B. Renard et al.**, “*Access and scientific exploitation of planetary plasma datasets with the CDPP/AMDA web-based facility in relation to the Europlanet-RI IDIS plasma node activities*”
Poster at the “American Geophysical Union 2011” Conference, San Francisco, USA
(Abstract: <http://adsabs.harvard.edu/abs/2011AGUFMSM21A1996K>) December 2011
- N. André et al.**, “*HST Auroral Campaign Observations of Jupiter and Saturn enabled by the CDPP/AMDA and IVOA/Aladin tools*”
Talk at the Workshop “Ensuring Long-Term Preservation and Adding Value to scientific and technical data” PV 2011, Toulouse, France
(Abstract: <http://ftp.cborg.info/1111PV/Abstract/053-spc0053.pdf>) November 2011
- B. Cecconi et al.**, “*Europlanet-IDIS Data model: a Data Model for a Planetology Virtual Observatory*”
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(Abstract: <http://ftp.cborg.info/1111PV/Abstract/011-spc0011.pdf>) November 2011
- M. Gangloff et al.** “*An Assessment of the IPDA/PDAP protocol to access Planetary Data*”
Poster at the “European Planetary Science Congress 2011”, Nantes, France
(Abstract: <http://adsabs.harvard.edu/abs/2011epsc.conf.1148G>) October 2011
- M. Scherf et al.**, “*Coordinated Observations within EuroPlaNet-NA1 and their future*”
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(Abstract: <http://adsabs.harvard.edu/abs/2011epsc.conf.843S>) October 2011
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(Abstract: <http://adsabs.harvard.edu/abs/2011epsc.conf.422K>) October 2011
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- R. Stöckler et al.**, “*Planetarium GRAZ: Project Phase and Experiences*”
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- N. André et al.**, “*HST Auroral Campaign Observations of Jupiter and Saturn enabled by the CDPP/AMDA service and the IVOA tool Aladin*”
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M. Khodachenko et al., “Europlanet-RI modelling service for the planetary science community: European Modelling and Data Analysis Facility (EMDAF)”

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N. André et al., “Saturn auroral science: Connecting Cassini in-situ and HST remote observations in the Virtual Observatory”

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M. Gangloff et al., “An interoperable architecture using the CDPP/AMDA service and the SPASE Data Model”

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N. André et al., “A science case for IDIS: Giant planet auroral and radio emissions – Connecting the CDPP/AMDA service and IVOA tools in the future”

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(Abstract: <http://adsabs.harvard.edu/abs/2009epsc.conf..92S>)

M. L. Khodachenko et al., “JRA3 / WP 24: European Modeling and Data Analysis Facility (EMDAF) – development of a Distributed computational modeling and data analysis service for the European planetary science”

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September 2009

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G. M. Chanteur et al., “The IDIS Joint Research Activity: Tools for a Planetary Virtual Observatory”

- Talk at the “European Planetary Science Congress 2009”, Potsdam, Germany
(Abstract:
<http://meetings.copernicus.org/epsc2009/abstracts/EPSC2009-811.pdf>)
M.-T. Capria et al., “*The IDIS Service Activity: Integrated and Distributed Information Service*”
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(Abstract:
<http://meetings.copernicus.org/epsc2009/abstracts/EPSC2009-810.pdf>)
N. André et al., “*CDPP/AMDA, un service web interopérable d'analyse de données de physique spatiale permettant l'exploitation de données plasmas planétaires et des études comparatives des magnétosphères du Système Solaire.*”
Talk at the “Programme National Soleil Terre” Conference 2009, Palaiseau, France
N. André et al., “*CDPP/AMDA, an interoperable web-based service usable for planetary Plasma data exploitation and comparative studies: Application to the Saturnian Environment and to the MAPSKP data*”
Talk at the „Magnetospheres of the Outer Planets” Conference 2009, Köln, Germany
N. André et al., “*Connecting the CDPP/AMDA service to planetary plasma data: Venus, Earth, Mars, Saturn (Jupiter and Comets)*”
Talk at the „Annual Meeting of the French Society of Astronomy and Astrophysics” 2009, Besançon, France
(Abstract: <http://adsabs.harvard.edu/abs/2009sf2a.conf..231A>,
Proceedings Paper: <http://sf2a.cesr.fr/2009/2009sf2a.conf..0231A.pdf>)
N. André et al., “*Comparative Automated Multi-Dataset Analysis of the Martian and Venusian time-variable Plasma Environments*”
Presentation at the “International Conference on comparative Planetology” ESLAB, ESTEC Noordwijk, Netherlands
N. André et al., “*An interoperable web-based service offered through the EuroPlaNet/IDIS Plasma Node usable for planetary Plasma data exploitation and comparative Studies: Application to the Martian and Venusian Environments*”
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