

## ADASS XXXI Contributions & PIDs

title	author(s)	PID
<b>INVITED TALKS</b>		
A Next-Generation Very Large Array	Eric J. Murphy	I2-001
Anomaly Detection in Astronomical Data using Machine Learning	Michelle Lochner	I7-001
Exploring Mars with 150,000 Earthlings	Meg Schwamb	I8-002
FAIR standards for astronomical data	Simon O'Toole	I4-001
GALAXY CRUISE Engages Citizen Astronomers to Explore Galaxies	kumikousuda	I8-001
Quantifying scientific correctness in radio interferometric imaging	Urvashi Rau	I0-001
Scaling Science in the Era of Survey Astronomy	Andy Connolly	I7-002
Taking Passengers on Planetary Exploration Vessels: Benefits of Engaging Space Enthusiast Communities with Rapidly Released Image Data	Emily Lakdawalla	I6-001
Teaching Resources for Virtual Observatory	Chenzhou Cui	I5-001
The TOM Toolkit: Power tools to enhance science and observations	Rachel Street	I0-002
<b>CONTRIBUTED TALKS</b>		
A globally distributed and scalable data post-processing framework for WALLABY science	Austin Shen	O0-003
A Science-Centric, Open approach to Scrum	Erik Tollerud	O0-002
A Tool to Explore Astronomical Databases and Transform Data into Planetarium Formats	Venustiano Soanatl Aguilar	O3-004
Advanced Data Analysis for Observational Cosmology: applications to the study of the Intergalactic Medium	Guido Cupani	O1-003
AIMfast: An Astronomical Image Fidelity Assessment Tool	Athanaseus Javas Ramaila	O0-004
An Unsupervised Learning approach to classifying Extended Radio Sources from deep MeerKAT images	Fernando L. Ventura	O1-006
Artificial Intelligence for Automatic Identification of Spectral Lines	Emmanuel Caux	O7-006
Astronomical Data Approximation Based on Neural Network Models	Samorodova Ekaterina & Konstantin Malanchev	O1-004
Building astroBERT, a language model for Astronomy & Astrophysics.	Felix Grezes	O1-001
Building Trustworthy Machine Learning Models for Astronomy	Michelle Ntampaka	O1-002
Data Central's Data Aggregation Service	Brent Miszalski	O3-003
Designing the SKA Regional Centre Network	Jesus Salgado & Slava Kitaeff	O7-003
ESASky: a visualisation tool for multi-messenger astronomy	Nuria Alvarez Crespo	O3-007
European Virtual Observatory Schools	Fran Jiménez-Esteban	O5-001
FAIR high level data for Cherenkov astronomy	Mathieu Servillat	O4-002
Fast interactive web-based data visualizer of panoramic spectroscopic surveys	Ivan Katkov	O3-005
Gaia AVU-GSR parallel solver towards exascale infrastructure	Valentina Cesare	O7-004
Grand opening of the European JWST Archive at the ESAC Science Data Centre	Maria Arevalo Sanchez	O3-008
Homogenization of multi-wavelength photometric data for RCSEDv2	Victoria Toptun	O7-009
Julia meets BIG DATA: JVO experience with distributed computing	Christopher ZAPART	O7-001
Lessons learned by adding cloud support to Rubin software	Dino Bektesevic	O7-002
Managing the data flow of the MHONGOOSE survey with open-access tools	Julia Healy	O0-007
Maneage: Managing data lineage for archivable reproducibility	Mohammad Akhlaghi	O0-001
Multi-segment and Echelle stellar spectra processing issues and how to solve them	Sviatoslav Borisov	O2-003
Natural language processing of astronomical transients reports	Adam Zdrožny	O1-005
Observing, calibrating and reducing near-infrared imaging mosaics	Kirill Grishin	O6-001
Open-source web tools for visualization of imaging and spectral data in RCSEDv2	Vladislav Klochkov	O3-006
pyds9plugin: a DS9 extension for quicklook processing scalable into a multi-processing pipeline	Vincent Picouet	O6-002
QuartiCal - embarassingly parallel calibration using Numba and Dask	Jonathan Kenyon	O7-007
Rubin Science Platform on Google: the story so far.	William O'Mullane	O3-002
Stimela 2.0: containerization and workflow management for data pipelines	Sphesihle Makhathini	O0-005
Supporting FAIR principles in the Astrophysics Community - the European experience	Marco Molinaro	O4-001
The Intelligent Observatory (South African Astronomical Observatory)	Stephen Potter	O2-002
The universe speaks for itself: from unsupervised physics to semantic source separation	Nima Sedaghat	O7-008
Three workflow add-ons to improve machine learning reproducibility in astronomy	Bernie Boscoe	O0-006
Uncertainty-Aware Learning for Improvements in Image Quality of the Canada-France-Hawaii Telescope	Sankalp Gilda	O2-001
Unconstrained storage - petascale at terascale prices.	Simon Ratcliffe	O7-005
Web accessibility trends and implementation in dynamic web applications	Tim Hostetler	O3-001
WFC3 IR Blob Classification with Machine Learning	Jennifer Medina & Frederick Dauphin	O1-007
<b>FOCUS DEMOS</b>		
Astronomical Image Proocessing at Scale With Pegasus and Montage.	G. Bruce Berriman	D0-001
CASSIS and Aladin interfaced to build a new spectral data cube analysis tool	Bonnarel François	D3-001
Interactively Visualizing Massive Images and Catalogs in Jupyter with AAS WorldWide Telescope	Peter K. G. Williams	D3-004

Jdaviz: An interactive visual data analysis tool for JWST in the Jupyter platform	Ricky O'Steen	D3-003
PyCPL and PyEsoRex: The ESO Common Pipeline Library in Python	Anthony Horton	D3-002
RETR-SPECT: A semantic RETRIeval engine for SPECTra, to seek similarities in the deeply encoded space	Nima Sedaghat	D1-001
<b>BoFs</b>		
Julia in Astronomy	Paul Barrett	B7-001
TAP and the Data Models	Laurent Michel	B3-001
<b>POSTERS</b>		
A deep learning approach to the discovery of anonymous Kuiper belt objects in wide-field imaging.	Aram Lee	X1-010
A distributed computing infrastructure for LOFAR Italian community.	giuliano taffoni	X7-012
A friendly solar radio multi-channel flux monitoring and controlling software	dongliang	X3-011
A massive full spectral fitting of the RCSEDv2 dataset	Vladimir Goradzhanov	X3-007
A new catalog of 343,000 quasars with their photometric redshifts derived with machine learning from the Kilo Degree Survey	Szymon Nakoneczny	X1-003
A Novel Data Visualization Experience with PyWWT and JupyterLab	Jon Carifio	X3-020
A novel FRB detection pipeline for NenuFAR	Julien Plante	X2-001
Accelerating the search of optimal radio interferometric gain solution intervals using xarray-ms and dask.	Ulrich Mbou Sob	X6-001
Access to VizieR catalogues of the Solar System	Stéphane Erard	X3-015
Accessing NASA data through Python: PyVO tutorials	Tess Jaffe	X3-013
An update on the RANSAC-assisted Spectral CALibration	Marco Lam	X0-008
Analytic approximations of K-corrections for galaxies out to redshift z=1	Anastasia V. Kasparova	X7-004
Annotating TAP responses on-the-fly against an IVOA data model	Laurent Michel, Mireille Louys, Bonnarel François	X3-010
Astro-COLIBRI: novel platform for real-time multimessenger astrophysics	Patrick Reichherzer	X3-001
Astronomical data organization, management and access in Scientific Data Lakes	Yan Grange	X9-002
Asymmetric distribution of data products from WALLABY, an SKA precursor neutral hydrogen survey	Manuel Parra	X7-009
Automated Spectroscopic Analysis using Genetic Algorithms	long	X0-013
Being nice to the server: Wrapping a REST API for a cosmological distance/velocity calculator with Python	JuanBC, Martin Beroiz	X0-017
Best Practices for Data Publication in the Astronomical Literature	Tracy Chen	X4-005
Big Data Challenge: a proposal for an active e-infra at INAF	Riccardo Smareglia	X7-002
Building a training set of hundreds of thousands of galaxy images	Evan Jones	X7-011
Building workflows for FAIR astronomical catalogues	gilles Landais	X4-007
Bulirsch-Stoer Instability in ORSA with Java Plotly Visualisation	Travis Stenborg	X9-010
CARACal : Pipelining Big Data to Big Science	Kshitij Thorat	X0-009
CEFA Catalogues Portal towards FAIR principles	Tamara Civera	X4-001
Decomposition of stellar populations in simulated disk galaxies using the TensorFlow/Keras framework	Sándor Kunsági-Máté	X6-002
Deep Learning model for explainable instance segmentation of morphology galaxy	Humberto Farias Aroca	X1-016
Design and Development of Modern Science Archives at the ESAC Science Data Centre	Javier Espinosa Aranda	X3-004
Distributed Development of the Level 1 Data Processing for Science Ground Segment for the ESA PLATO Mission	David Keiderling, Cilia Damiani	X0-004
EleFits: A modern C++ API on top of CFITSIO	Antoine Basset, Hubert Degaudenzi, Manuel Grizonnet	X0-001
Emission stellar spectra normalisation using SUPPNet	Rozanski Tomasz	X1-014
ESA Datalabs 2.0: Boosting Open Collaboration in ESA Space Science	Vicente Navarro	X0-002
ESAP: The ESCAPE Science Analysis Platform	John Swinbank	X0-010
Event detection and reconstruction using Neural Networks in TES devices: a case study for Athena/X-IFU	Jesús Vega Ferrero	X1-006
Exploring and analysing data from the Webb Space Telescope in ESA Datalabs	Marcos López-Caniego	X0-005
Exposing astronomical data with VOSSIA 2.0: a modular and customizable VO-compliant multi-protocol interface	Nicola Fulvio Calabria	X9-008
Flexible Workflow Definitions for Reproducibility in Complex Systems	Marie Terrell	X0-018
Full LST-1 data reconstruction with the use of convolutional neural networks	Jakub Juryšek	X1-001
HDF5 parallelization for Hierarchical Semi-Sparse data cubes	Jiri Nadvornik	X1-015
Hybrid minimization algorithm for computationally expensive multi-dimensional fitting	Evgenii Rubtsov	X7-003
IACT event analysis with the MAGIC telescopes using deep convolutional neural networks with CTLearn	Tjark Miener, Luca Romanato, Sahil Yadav, Ettore Mariotti	X0-007
Inclusive CDS	André Schaaff	X3-021
Interoperable standardisation of the VLKB dataset access services	Robert Butora	X4-008
Latent Space Explorer: Unsupervised Data Pattern Discovery on the Cloud	Thomas Cecconello	X0-019
Localization of Electromagnetic Transient Candidates: a new Python plug-in for Aladin	Arianna Bartolomei	X4-006
Machine Learning of Galaxy Classification by their Images and Photometry	Iryna Vavilova	X1-012
Mapping the Diversity of Galaxy Spectra with Deep Unsupervised Machine Learning	Hossen Teimoorinia	X1-009
MicadoWISE: Integrate Data Simulation with Processing Validation	Hugo Buddelmeijer	X0-003
MOCLibRust, a common library for MOCpy, MOCli and MOCwasm	F.-X. Pineau	X9-011
News from ESASky	Henrik Norman	X3-003
Non-parametric LOSVD analysis	Damir Gasymov	X4-002

Object Oriented Data Model strategy in the context of IVOA Table Access Protocol services	Laurent Michel,Mireille Louys, Bonnarel François	X4-010
Onboarding SPACE services to the European Open Science Cloud	Eva Sciacca	X3-012
Open-source Analysis Tools for multi-instrument Dark Matter Searches	Tjark Miener	X0-006
Optical Variability of "Light-weight" Supermassive Black Holes at a Few Percent Level from ZTF Forced-Photometry Light Curves.	Mariia	X4-003
Optimization of the storage database for the Monitoring system of the CTA	Federico Incardona	X2-002
PolarVis: Towards Web-based Polarimetric Analysis	Lexy Andati	X3-019
Prediction of molecular parameters from astronomical emission lines, using Neural Networks	Alejandro Barrientos	X1-013
Preliminary Results of a Deep Learning Anomaly Detection Method to Identify Gamma-Ray Bursts in the AGILE Anticoincidence System	Nicolò Parmiggiani	X1-007
Prototype of Interactive Visualisation Tool for Bayesian Active Deep Learning	Ondřej Podsztavek	X1-008
PyCPL: using Pybind to bring and adapt C libraries to Python	Anthony Horton,Anthony Heng	X3-009
Radio source analysis services for the SKA and precursors	Simone Riggi	X1-011
RCSEDv2: the largest database of galaxy properties from a homogeneously processed multi-wavelength dataset	Igor Chilingarian	X3-008
Remote visualization and previews for ALMA	Felix Stoehr	X3-014
Resourcing provision: the INAF gateway	Cristina Knapic	X3-005
Self-attention based encoder models for strong lens detection	Hareesh Thuruthipilly	X1-002
SKAO challenges on distributed software development for SKAO: managing a 24h collaboration from a single time zone.	Juande Santander-Vela	X9-003
Software solutions for numerical modeling of wide-field telescopes	Salvatore Savarese	X2-003
Source finding with SoFIA and very large source files	Geoff Duniam	X7-005
Spark-based fast approximate method for computing simulated galaxy fluxes, applied to Euclid and PAU photometric surveys	Pau Tallada Crespí	X7-006
SPSRC: cloud computing in the Spanish prototype of a SKA Regional Centre	Javier Moldon	X0-015
SRGz: machine learning system for physical characterisation of X-ray sources detected during SRG/eRosita mission	Alex Meshcheryakov	X1-005
Starlink: the 2021A release	Graham Bell	X9-009
Stellar Spectra Models Classification and Parameter Estimation Using Machine Learning Algorithms	Miguel Flores R.	X1-004
Taplint, the TAP Service Validator	Mark Taylor	X7-008
The AGILEScience App to execute gamma-ray scientific analyses from mobile devices	Andrea Bulgarelli	X3-017
The BIAS (Beck-end Independent Acquisition Subsystem) to upgrade the CIWS framework.	Valerio Pastore	X9-001
The Data Acquisition System assessment to support the observation quality system of the ASTRI Mini-Array Project	Vito Conforti	X7-001
The ESCAPE Data Science Summer School	Thomas Vuillaume	X5-001
The frocc spectral imaging pipeline	Lennart	X6-005
The INAF-IA2 proposal to link data to papers	Cristina Knapic	X3-006
The International Virtual Observatory in 2021	G. Bruce Berriman	X4-004
The latest updates in Yandasoft development	Paulus Lahur	X9-004
The LMT Single Dish Spectral Line Toolkit	Peter Teuben	X2-004
The prototype of the information system "Parent Galaxies of Radio Sources"	Zhelenkova Olga	X9-007
The SciServer at MPE - Enabling collaboration for eROSITA & HETDEX	jhaase	X0-014
The SIMPLE Archive	David Rodriguez	X0-012
The Struggles to find a good Electronic Document Management System (EDMS) for the DKIST Project	Anastasia Alexov	X0-011
The X-ray Galactic Center: 2 Decades of Image Releases	Nancy Wolk	X6-003
Tidying after cleaning	Landman Bester	X6-004
UltraPINK - New possibilities to explore Self-Organizing Kohonen Maps	Fenja Kollasch	X0-016
Unsupervised classification of simulated black hole shadows	Micaela Menegaldo	X7-010
Using galaxy catalogues to localise gravitational-wave sources: a new Virtual Observatory plug-in to esteem their completeness	Elisa Cartechini	X4-009
Using script generators for pipeline prototyping	Dirk Petry	X9-005
Utilizing Open Shading Language and Blender for Data Cube Volume Visualization	Brian Kent	X7-007
ViaLactea: a distributed Visual Analytic system for exploring our Galactic ecosystem	Giuseppe Tudiaco	X3-018
Visfit: a Julia programming language package for fitting radio interferometry visibility data	Paul Barrett	X9-006
Visualising archives by embedding ESASky	Mattias Wångblad	X3-002
Yafits - A remote 2D/3D radio-data explorer - new features	philippe. salome@observatoiredeparis.psl.eu	X3-016