Scientific Writing Studio:

how publishers can help authors
to work smarter and faster

Researchers are under pressure: publish or perish is one of their main challenges.

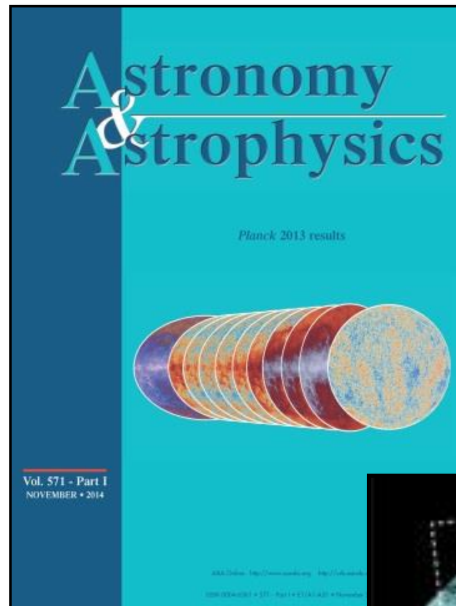
Writing is hard and scientific writing is harder, and any help Publishers can provide to assist the Astronomy community with the process is greatly appreciated (especially by younger authors).

How it started…

Today *A&A* **is the first choice** for the publication of special features

Astronomy & Astrophysics (A&A): Special issues

- HESS *(Open)*
- The VLA-COSMOS 3 GHz Large Project *(Open)*
- *Gaia* Data Release 1 *(Open)*
- XXL Survey: Second series *(Open)*
- GREGOR first results *(Open)*
- *Planck* 2015 results
- The XXL Survey: First results
- Rosetta mission results pre-perihelion
- *Planck* 2013 results
- GREAT: early science results
- Planck early results
- Herschel/HIFI: first science highlights
- Pre-launch status of the *Planck* mission
- Herschel: the first science highlights
- Science with AKARI
- The CoRoT space mission: early results



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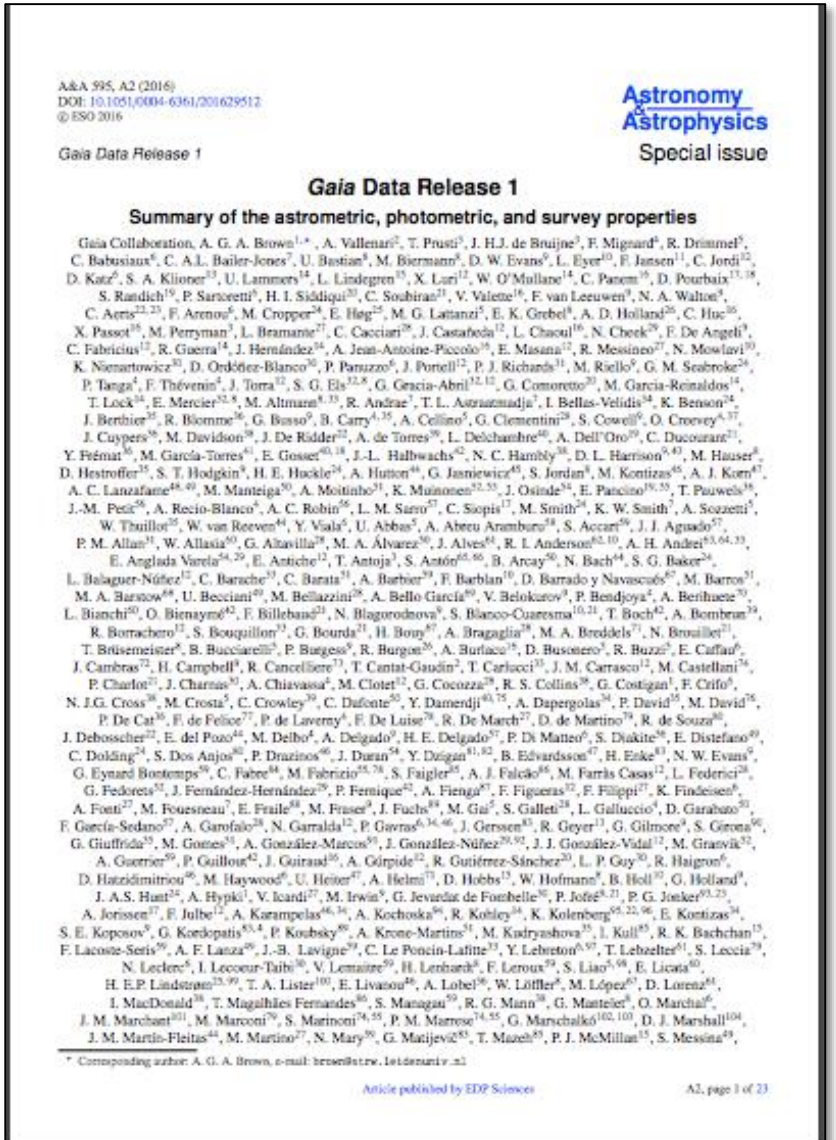
Astronomy & Astrophysics


A&A 595, A2 (2016)
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Astronomy & Astrophysics
Special issue

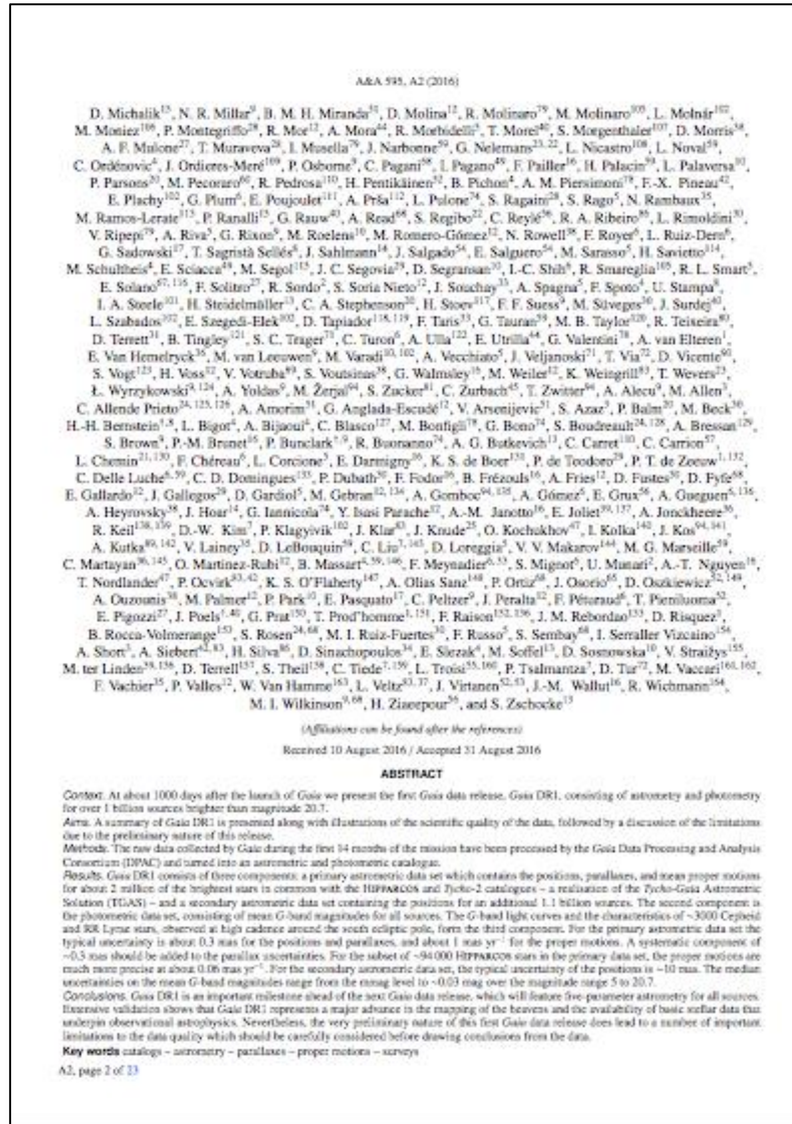
Gaia Data Release 1

Gaia Data Release 1

Summary of the astrometric, photometric, and survey properties

Gaia Collaboration, A. G. A. Brown[1,*], A. Vallenari[2], T. Prusti[3], J. H.J. de Bruijne[3], F. Mignard[4], R. Drimmel[5],

* Corresponding author: A. G. A. Brown, e-mail: brown@strw.leidenuniv.nl



(Affiliations can be found after the references)

Received 10 August 2016 / Accepted 31 August 2016

ABSTRACT

Context. At about 1000 days after the launch of *Gaia* we present the first *Gaia* data release, Gaia DR1, consisting of astrometry and photometry for over 1 billion sources brighter than magnitude 20.7.
Aims. A summary of Gaia DR1 is presented along with illustrations of the scientific quality of the data, followed by a discussion of the limitations due to the preliminary nature of this release.
Methods. The raw data collected by Gaia during the first 14 months of the mission have been processed by the Gaia Data Processing and Analysis Consortium (DPAC) and turned into an astrometric and photometric catalogue.
Results. Gaia DR1 consists of three components: a primary astrometric data set which contains the positions, parallaxes, and mean proper motions for about 2 million of the brightest stars in common with the HIPPARCOS and *Tycho*-2 catalogues – a realisation of the *Tycho-Gaia* Astrometric Solution (TGAS) – and a secondary astrometric data set containing the positions for an additional 1.1 billion sources. The second component is the photometric data set, consisting of mean *G*-band magnitudes for all sources. The *G*-band light curves and the characteristics of ~3000 Cepheid and RR Lyrae stars, observed at high cadence around the south ecliptic pole, form the third component. For the primary astrometric data set the typical uncertainty is about 0.3 mas for the positions and parallaxes, and about 1 mas yr^{-1} for the proper motions. A systematic component of ~0.3 mas should be added to the parallax uncertainties. For the subset of ~94 000 HIPPARCOS stars in the primary data set, the proper motions are much more precise at about 0.06 mas yr^{-1}. For the secondary astrometric data set, the typical uncertainty of the positions is ~10 mas. The median uncertainties on the mean G-band magnitudes range from the mmag level to ~0.03 mag over the magnitude range 5 to 20.7.
Conclusions. Gaia DR1 is an important milestone ahead of the next Gaia data release, which will feature five-parameter astrometry for all sources. Extensive validation shows that Gaia DR1 represents a major advance in the mapping of the heavens and the availability of basic stellar data that underpin observational astrophysics. Nevertheless, the very preliminary nature of this first *Gaia* data release does lead to a number of important limitations to the data quality which should be carefully considered before drawing conclusions from the data.

Key words. catalogs – astrometry – parallaxes – proper motions – surveys

sciences Writing studio

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a demo:

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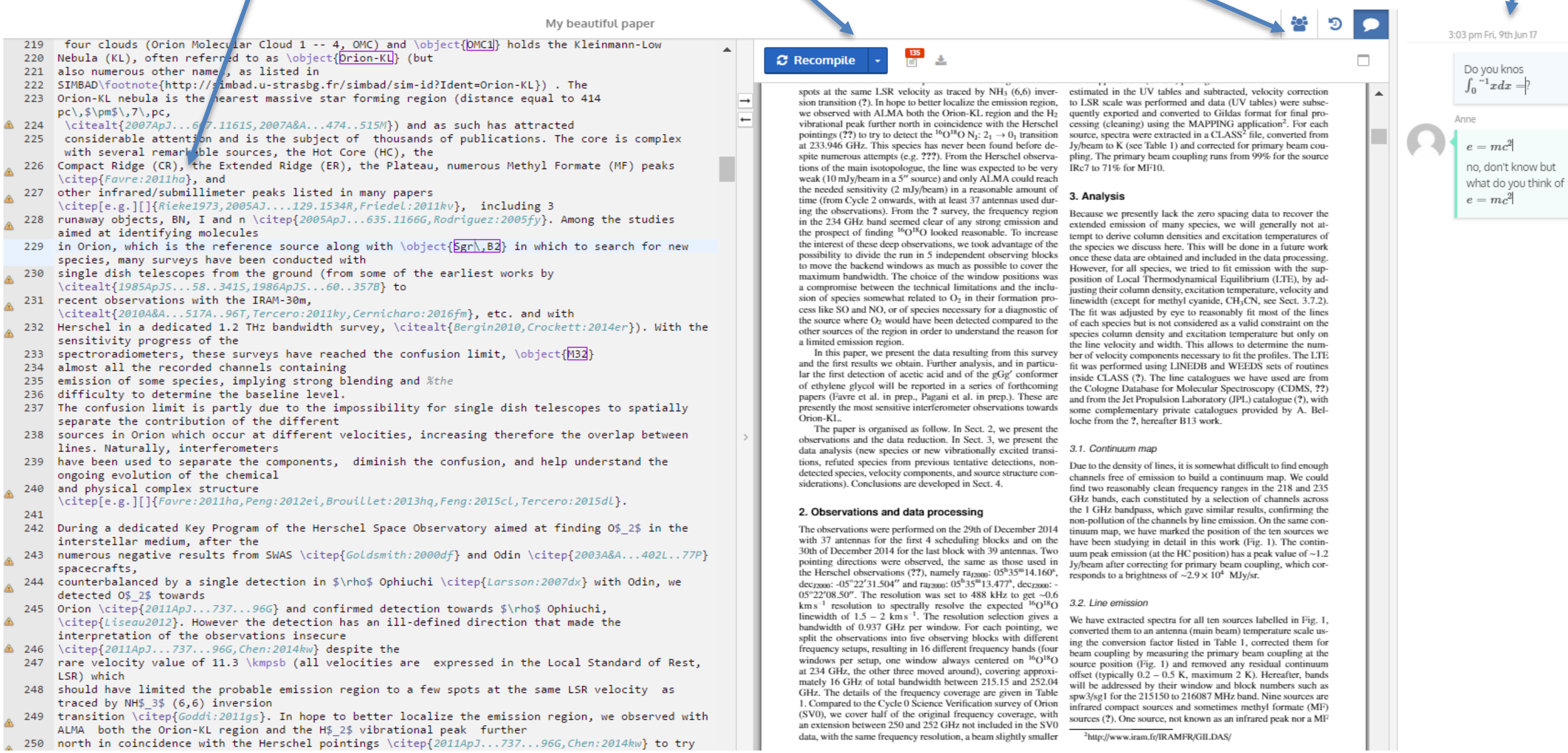

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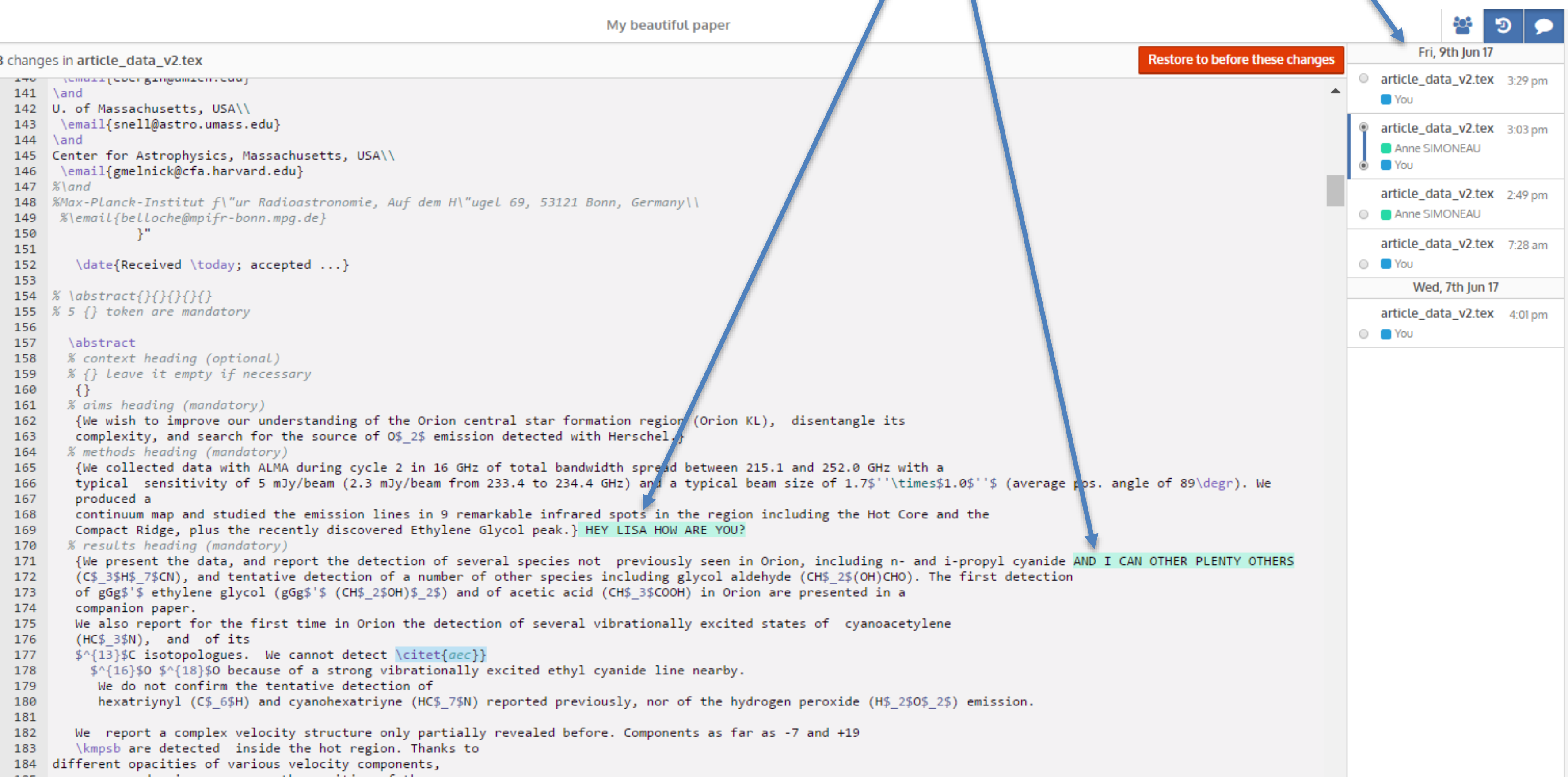
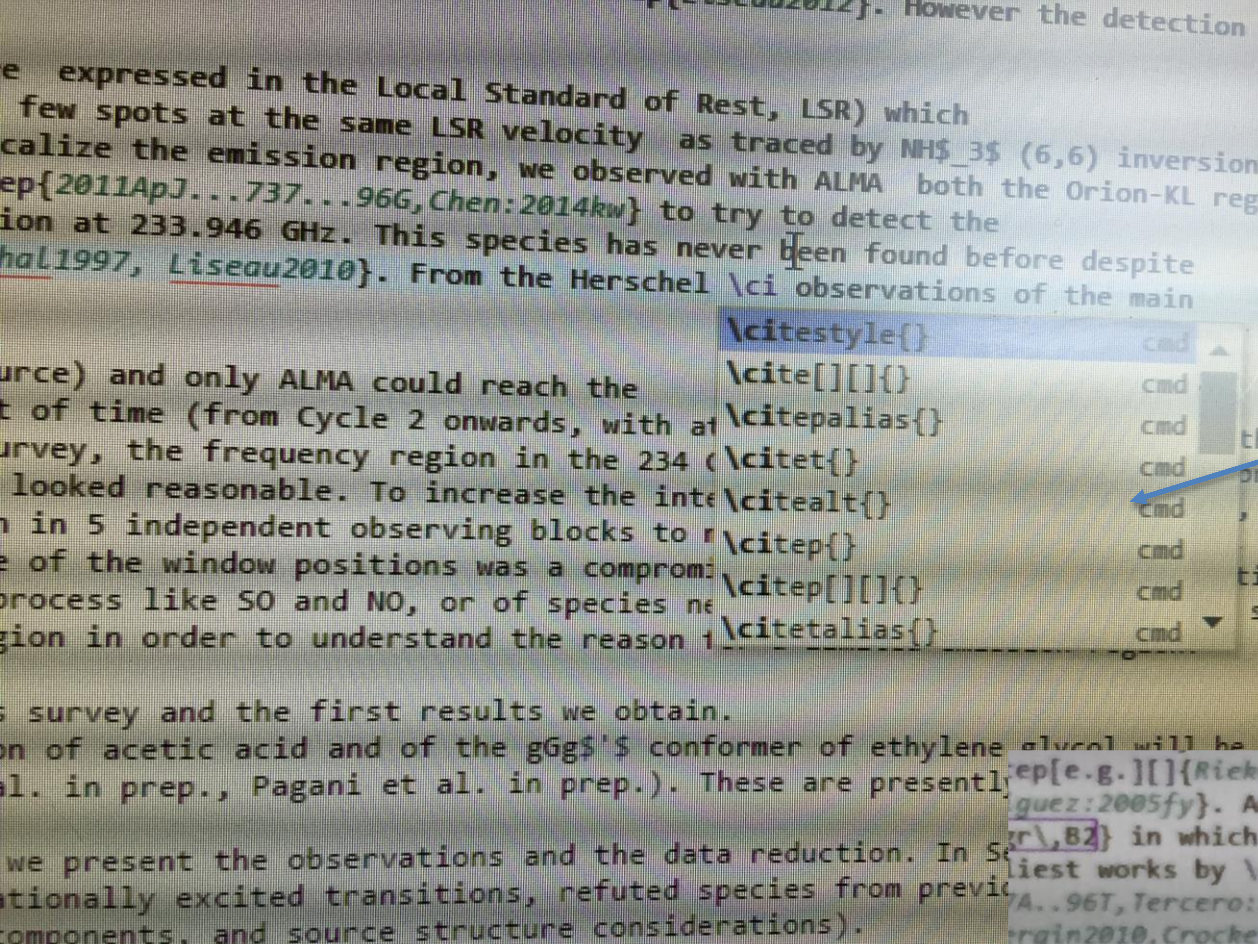
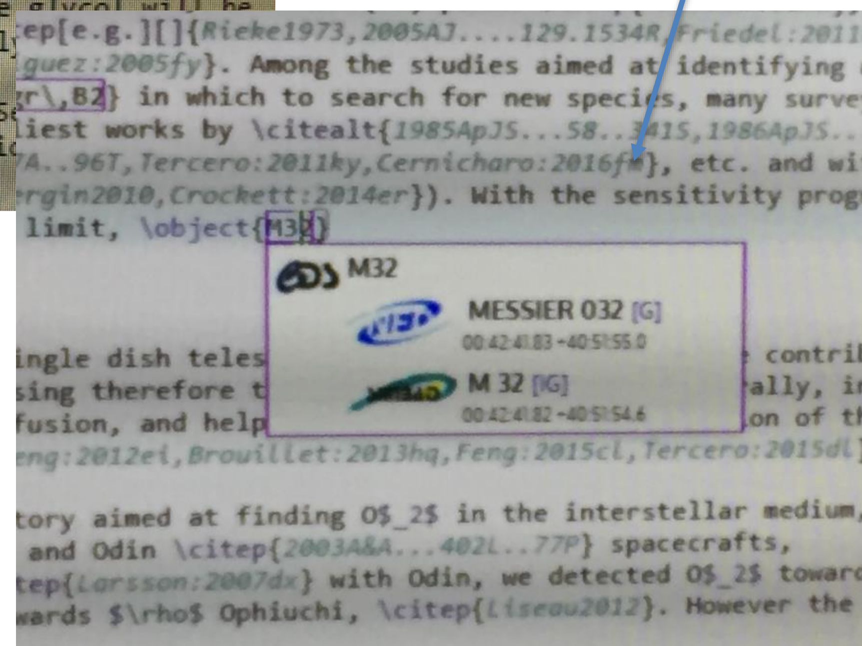




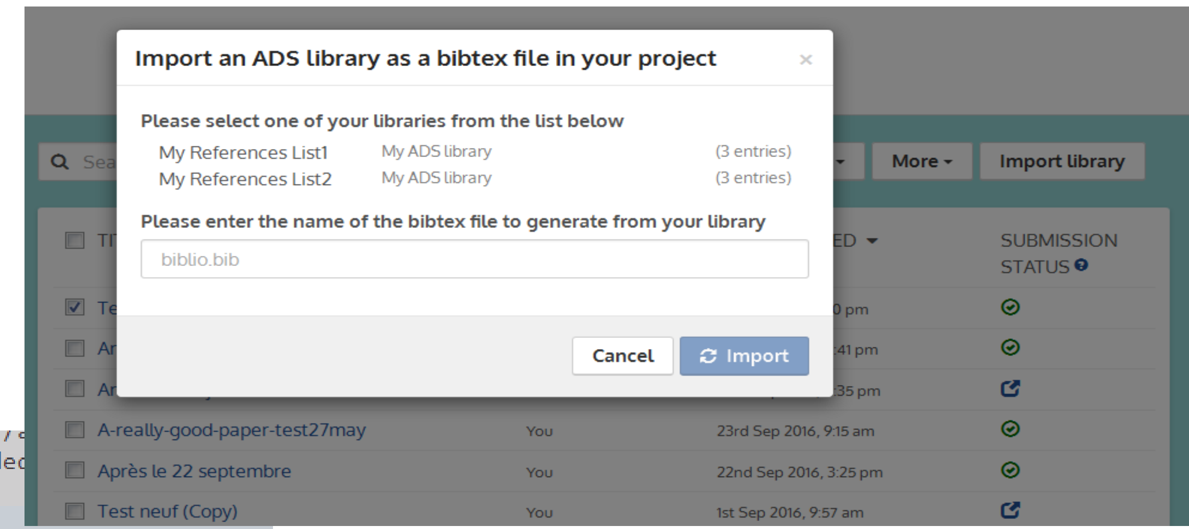
Auto-completion

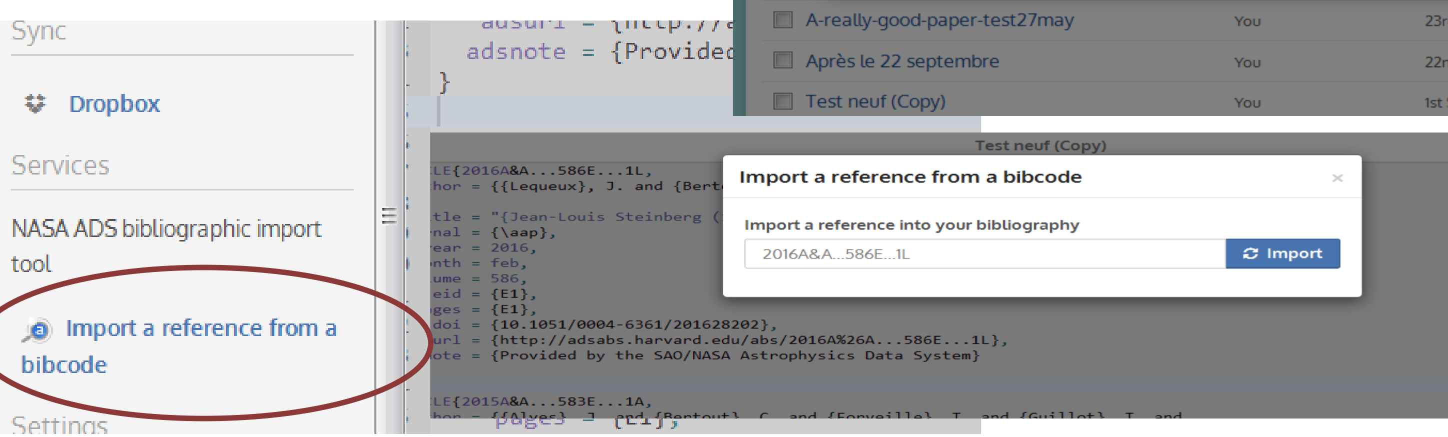
Links to tool at CDS

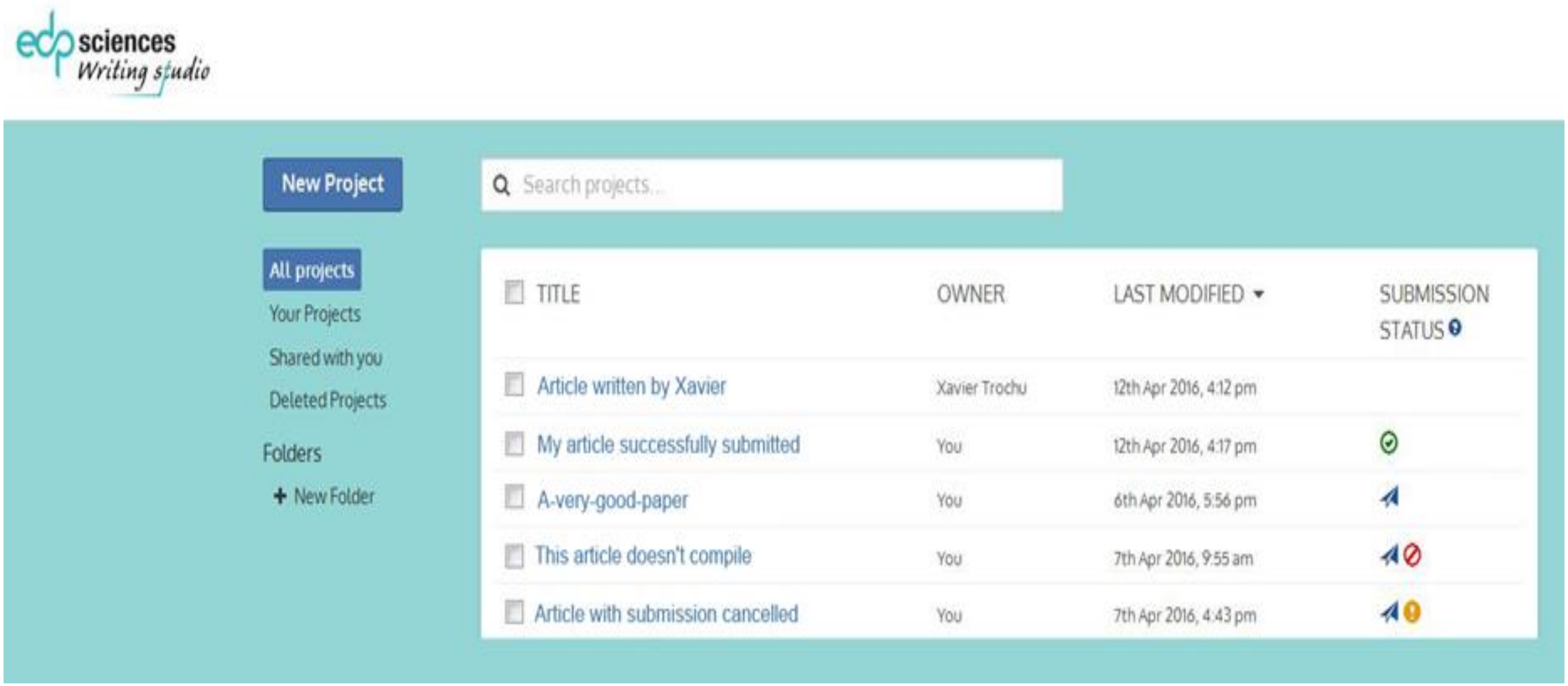


Next steps for Writing Studio

- ✓ Integrate a citation helper to make building reference lists easy for the end user
- ✓ Import from library (papers bookmarked by a user in a collection)



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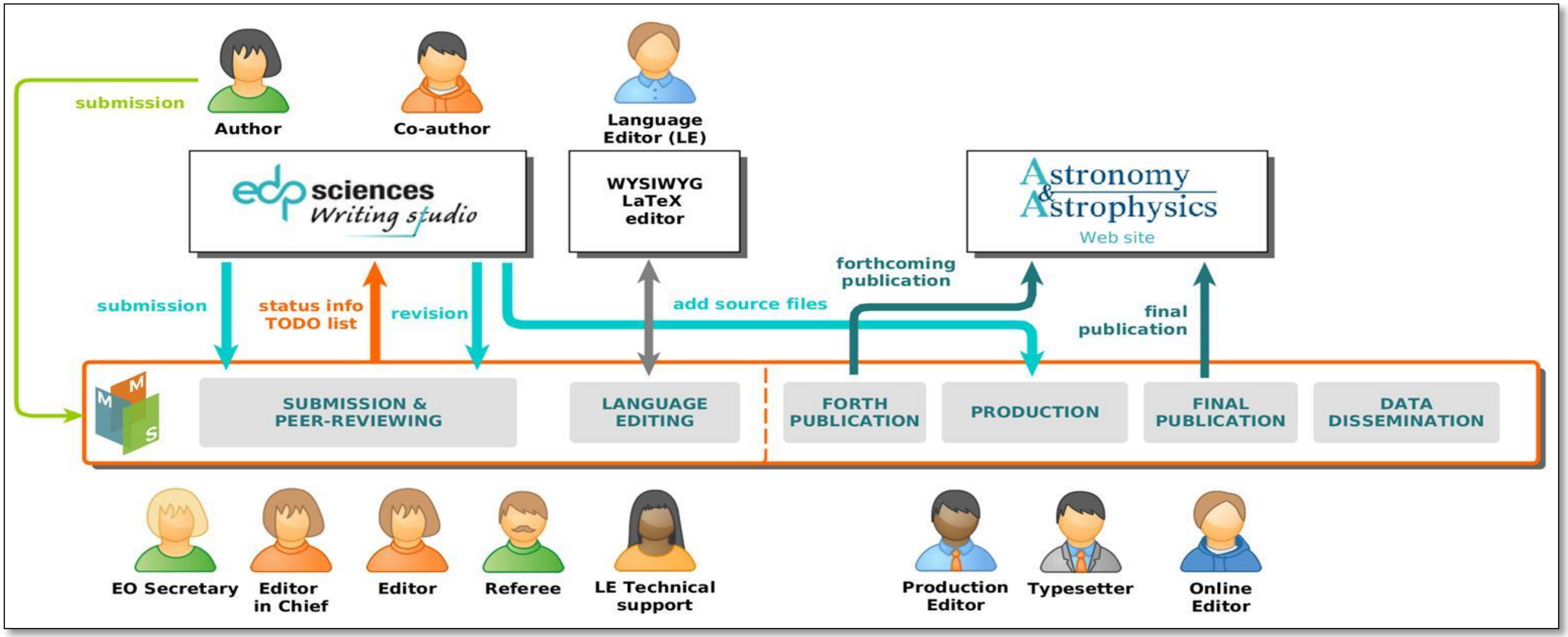
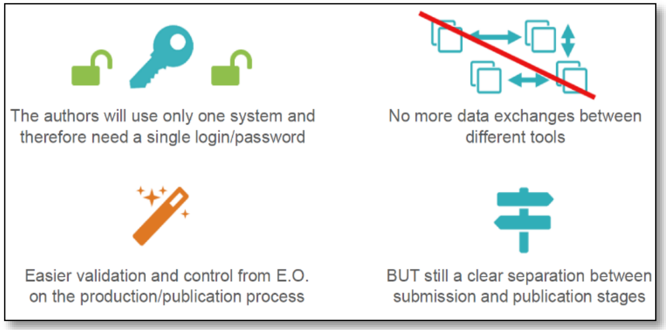
From submission to dissemination:

our proposal for an integrated and user-friendly process





Some numbers

	May 17	August 16
Number of accounts (total)	**517**	422
Number of active accounts (connected at least once):	**511**	323
Number of projects (total):	**738**	355
Projects with at least one declared collaborator:	**170**	70
Maximum number of collaborators on a project:	**16 (1 project)**	8
Number of files with more than 100 modifications:	**332**	92
Chats around the projects:	**208**	103

What our authors are saying about Writing Studio

My experience of Writing Studio is excellent

***Francesco Pepe**, Observatoire de l'Université de Genève, Switzerland*

Excellent - Fast, efficient, useful to share article writing

***Pierre HENRI,** LPC2E – CNRS, France*

I think that EDPS-WS is an EXCELLENT initiative.
Reasons: Nice editor, Compiler fast, Option for draft compilation (essential for large documents), Lots of editor configurations, Sharing!

***Rodolfo H. Barbá,** Departamento de Física y Astronomía, Universidad de La Serena Cisternas, Chile*

I'm happy with Writing Studio

***Olivier ABSIL** Research Associate, STAR Institute, Université de Liège, Belgium*

If you require further information or support in how to demonstrate **Writing Studio** to your researchers or any further comments please contact:

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