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MC1.2-Elettra-Sincrotrone Trieste S.C.p.A.-490-1	**JACoW Demo Submitter JACoW Submitter**	IPAC25 TUPB008 issues	TUPB008	MOPA1
Elettra-Sincrotrone Trieste S.C.p.A.-490-2	**JACoW Demo Submitter JACoW Submitter**	IPAC25 MOPM069 issue	MOPM069	MOPA2
Elettra-Sincrotrone Trieste S.C.p.A.-490-3	**JACoW Demo Submitter JACoW Submitter**	IPAC25 TUPB091 issue	TUPB091	MOPA3
MC1.1-Elettra-Sincrotrone Trieste S.C.p.A.-490-4	**JACoW Demo Submitter JACoW Submitter**	IPAC25 THPS137 issues	THPS137	MOPA4
MC1.1-Elettra-Sincrotrone Trieste S.C.p.A.-490-5	**JACoW Demo Submitter JACoW Submitter**	NAPAC25 THP020 issues	THP020	MOPA5
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MC1.3-Elettra-Sincrotrone Trieste S.C.p.A.-490-7	**JACoW Demo Submitter JACoW Submitter**	IBIC MOBC01 issue	MOBC01	MOPA7

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Session block code: TUXA

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☐ **TUOAA MC4 Contributed Oral Presentations: MC4 Contributed orals**

Type: Contributed Oral Presentations
Session block code: TUOAB

☑ **TUOAB MC1 Contributed Oral Presentations: MC1 Contributed Oral Presentations**

sort	speaker	title	old code	new code
09:30	Kuzin Maxim	Modern Trends in Development of Super High Energy Circular Colliders	TUOAB1	TUOAB1
10:10	**Demo Submitter JACoW**	A Test Abstract	TUOAB222	TUOAB2
10:10	**Demo Submitter JACoW**	Another test	TUOAB3	TUOAB3
09:50	**JACoW Demo Submitter JACoW Submitter**	JACoW New Template version test	TUOAB4	TUOAB4

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The international linear collider (ILC) is a Higgs Factory, where electron-positrons are accelerated by the linear accelerators using Superconducting RF (SRF) cavities to 125 GeV. In 2013, the GDE, an	Normal	JUSTIFY	5.0 should be 9.35	10	None	None	✗
The Higgs boson was discovered at the LHC in 2013, and the next major challenge for high-energy physics is to investigate the Higgs boson itself in detail and to search for higher-energy particles bey	JACoW_Body Text Indent	JUSTIFY	9.35	10	None	None	✓
In recent years, the International Development Team (IDT) has been established to promote the development of the ILC [2], and the ILC technology network (ITN) has been proposed to promote the developm	JACoW_Body Text Indent	JUSTIFY	5.0 should be 9.35	10	None	None	✗

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   \textquotedblleft{20-24 GeV FFA CEBAF Energy Upgrade}\textquotedblright,
   in \emph{Proc. IPAC'21}, Campinas, Brazil, May 2021, pp. 715--718.
   \doi{10.18429/JACoW-IPAC2021-MOPAB216}
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   J. Benesch \emph{et al.},
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   in \emph{Proc. IPAC'23}, Venice, Italy, May 2023, pp. 962--964.
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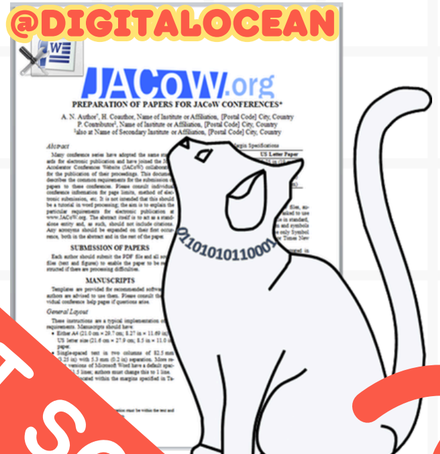


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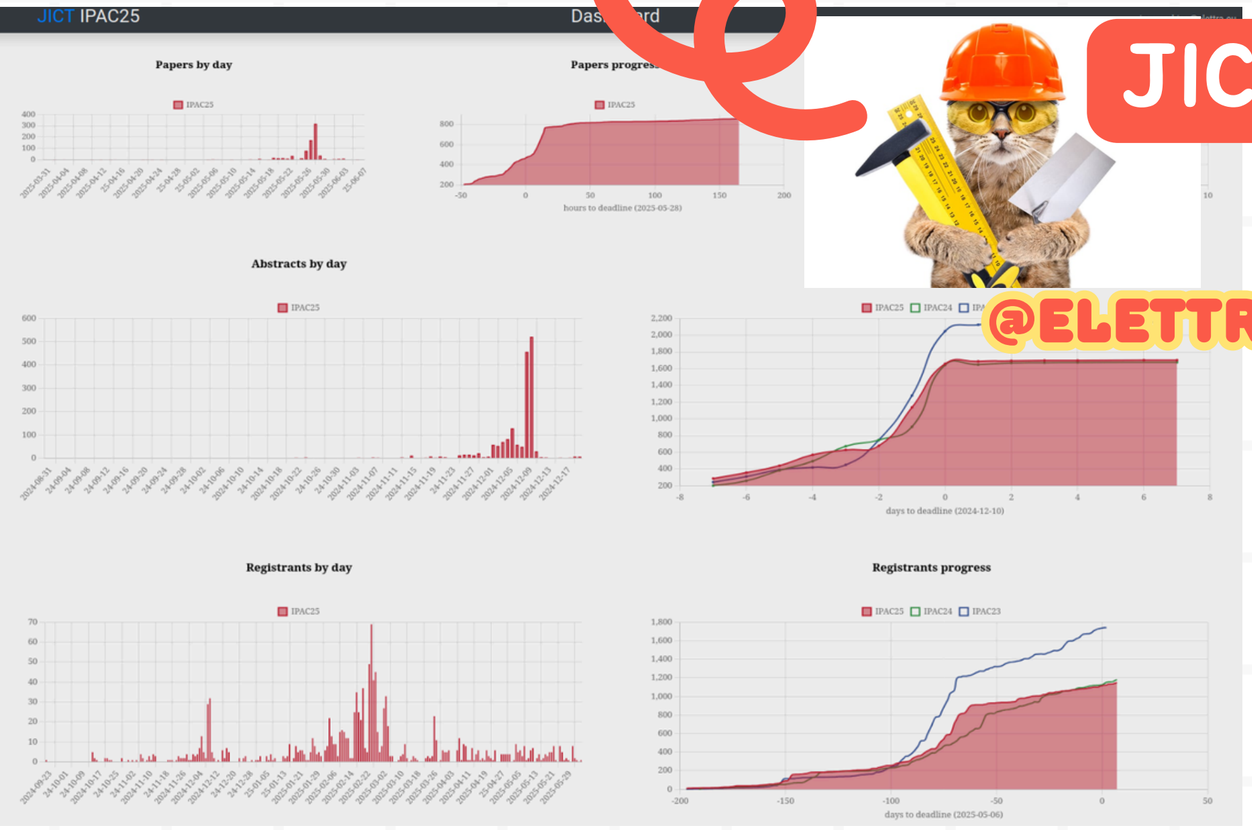
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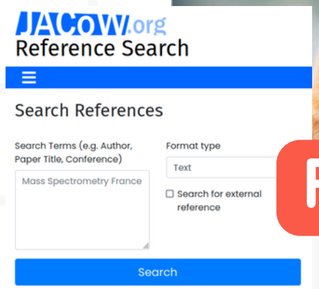
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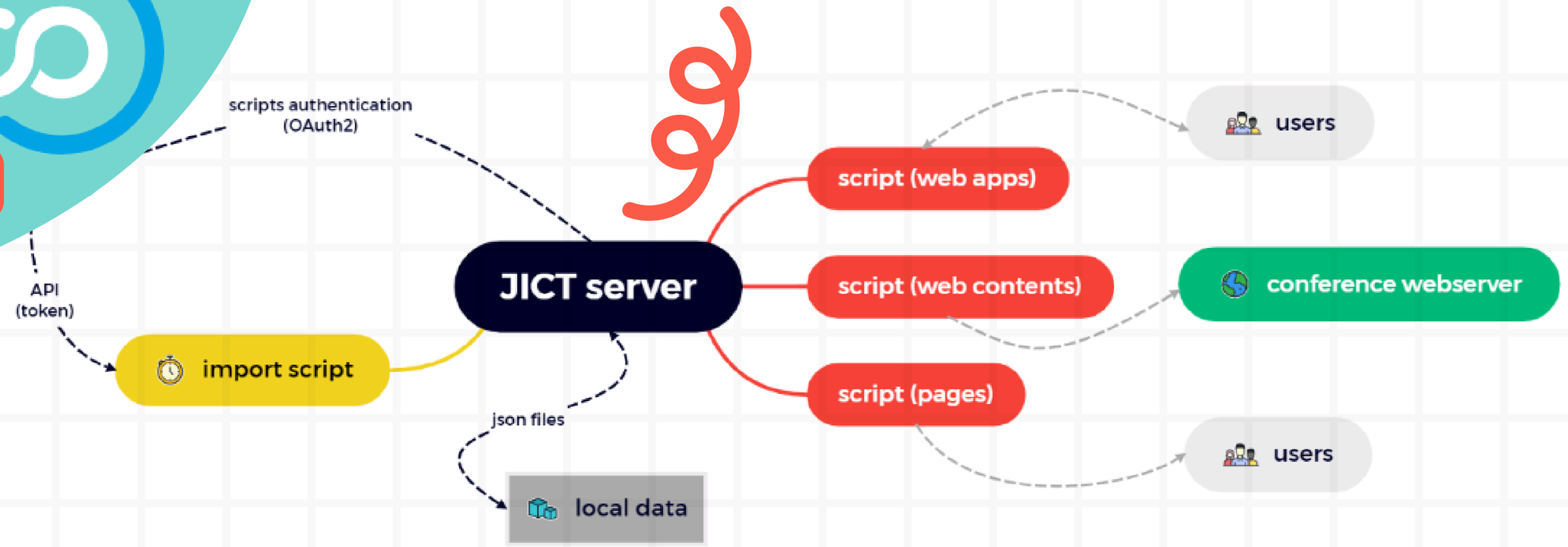
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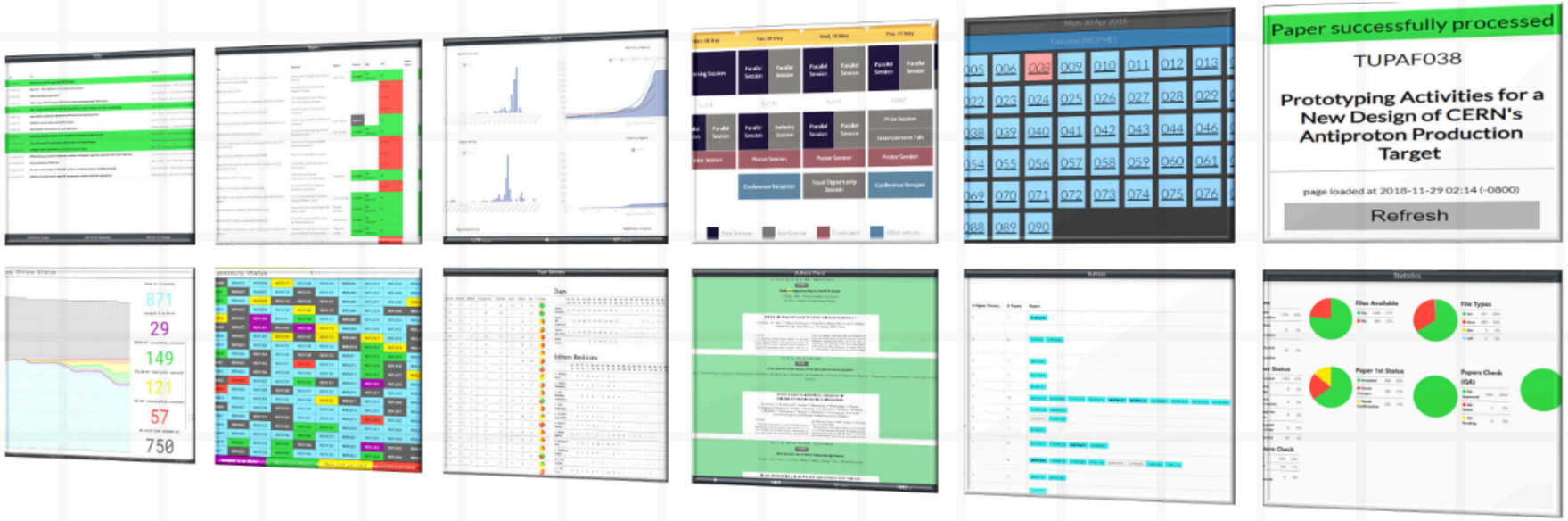
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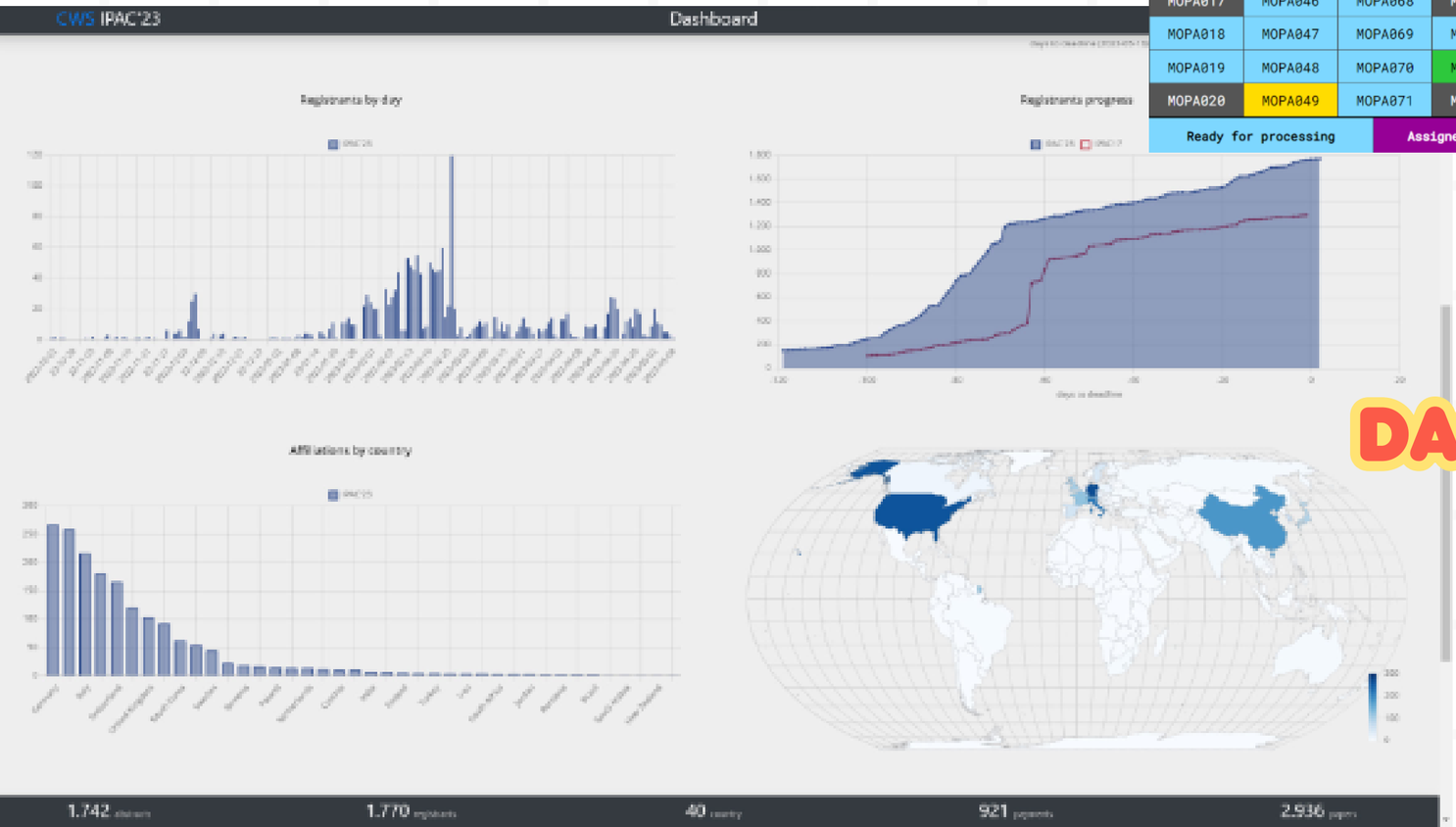
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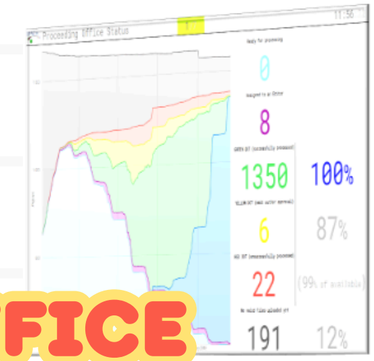
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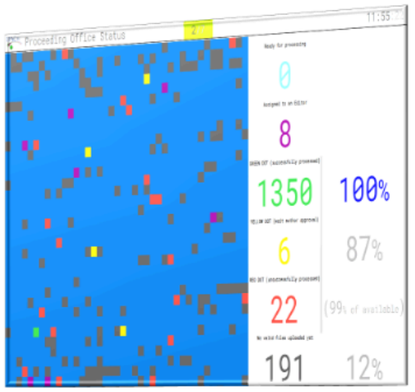
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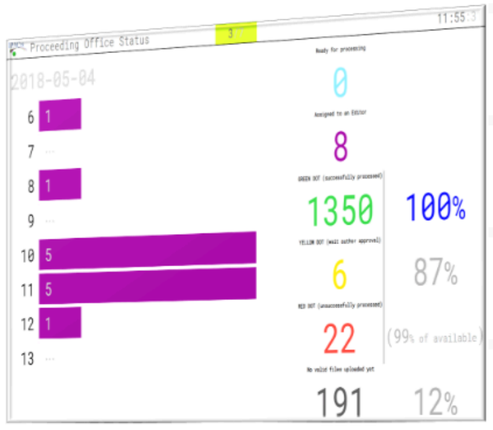
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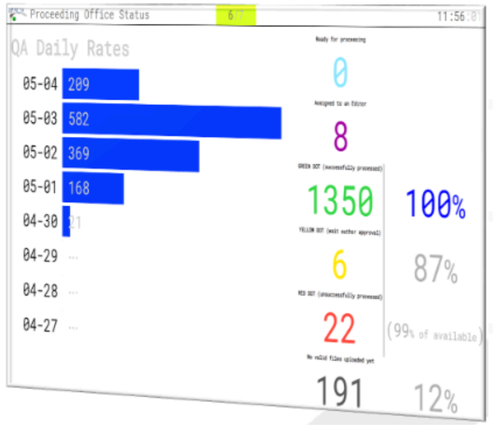




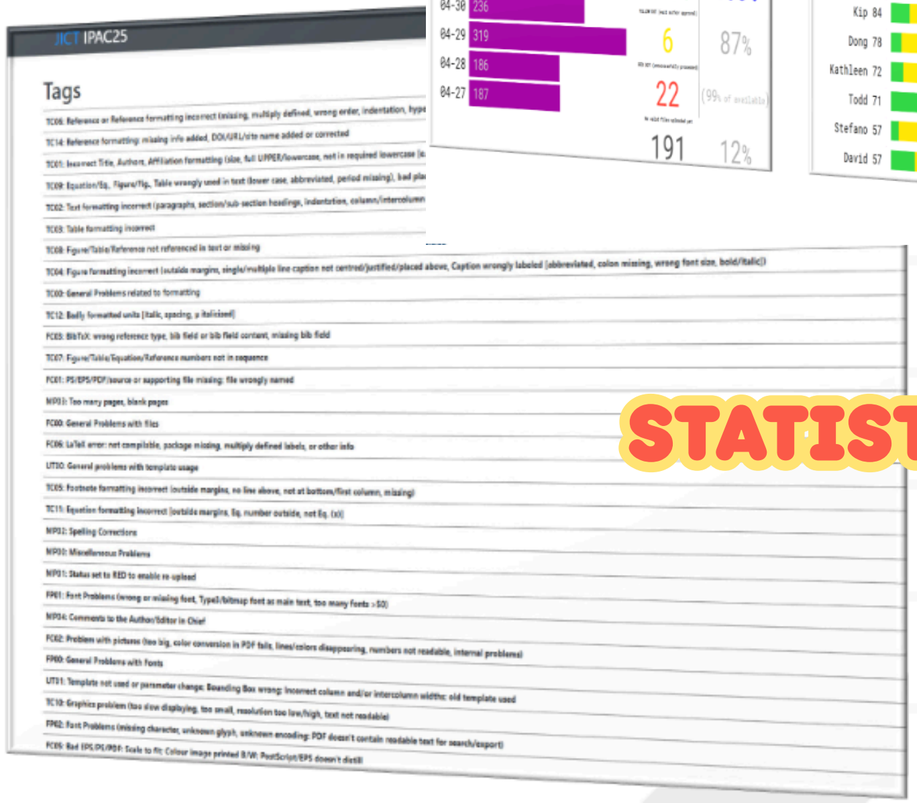












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Papers QA Failed	1	12	44	50	29	68	44	40	36	8
Slides Check	-	-	-	-	3	26	18	17	15	6

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2	WEOA02 revisions	Contributed Oral Presentation	Designing and fine-tuning cryo-cooled silicon mono-chromator crystals to minimize optical distortions caused by photon-beam heating	Pablo Sanchez Navarro (Diamond Light Source)	docx	Linus Roslund	Accepted	QA Approved	OK		OK	Not registered	Not present	
3	TUP28 revisions	Poster Presentation	MicroMAX beam conditioning unit	Staffan Benedictsson (MAX IV Laboratory)	docx	Staffan Benedictsson	Accepted	QA Approved	OK	OK	OK	Not registered	Not present	
5	TUOB04 revisions	Contributed Oral Presentation	Recent advances in X-ray microscopy instrumentation developments at NSLS-II	Evgeny Nazaretski (Brookhaven National Laboratory)	docx	Suleyman Malki	Accepted by Submitter	QA Approved	OK		OK	Not registered	Not present	
7	THP22 revisions	Poster Presentation	Evaluation of 3D-printed plastics for ultra-high vacuum applications: Outgassing, and residual gas analysis	Artur Domingues (MAX IV Laboratory)					NO PDF	OK		Not registered	Not present	
8	WEOB05 revisions	Contributed Oral Presentation	A new RF-contact spring mechanism for exchangeable cathodes in high brightness guns at DESY	Frieder Mueller (Deutsches Elektronen-Synchrotron DESY)					NO PDF			Not registered	Not present	
9	THP47 revisions	Poster Presentation	Pumping station for UCV and UHV Components in the European XFEL cleanroom	Joshua Ohnesorge (European XFEL GmbH)	tex	Zhichu Chen	Accepted by Submitter	QA Approved	OK	OK	OK	Not registered	Not present	
10	WEOC04 revisions	Contributed Oral Presentation	Experience with a bunch lengthening cavity at the APS	Joel Fuerst (Argonne National Laboratory)	docx	Staffan Benedictsson	Accepted	QA Approved	OK		OK	Not registered	Not present	
11	TUKB03 revisions	Invited Oral Presentation	The European Spallation Source – ESS: Mechanical engineering and structural health monitoring.	Nikolaos Gazis (European Spallation Source)					NO PDF			Not registered	Not present	
12	WEP28 revisions	Poster Presentation	Double crystal bent Laue monochromator: modelling and measurements up to 150 keV	Omar Renzo Piminchumo Marinos (Canadian Light Source Inc.)	docx	Staffan Benedictsson	Accepted	QA Approved	OK	OK	OK	Not registered	Not present	
13	WEOB03 revisions	Contributed Oral Presentation	Cryogenic radiometry: a new absorber for X-rays up to 150 keV	Omar Renzo Piminchumo Marinos (Canadian Light Source Inc.)	docx	Suleyman Malki	Accepted	QA Approved	OK		OK	Not registered	Not present	

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Machine interlock system for accelerator section of PAL-XFEL

YoungJin Suh - Pohang Accelerator Laboratory

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374	TUPC45 revisions	Poster Presentation	A preliminary feasibility study on multi-cavity cryomodule integration for the Electron Ion Collider energy recover linac cooler	Sadiq Setiniyaz (Thomas Jefferson National Accelerator Facility)	tex	Ivan Andrian	Accepted by Author	QA Approved	NO PDF	OK	OK	OK	OK	

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BeamPIE – a suborbital test of an accelerator for space applications

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Q. Marksteiner, R. Aragonez, D. Beckman, B… Giblin, A. Guider, B. Haynes, R. Hemphill, M. Holloway, R. Holmes, J. Lewellen, J. Moreno, D. Patrick, V. Pavlenko, C. Roper, …heldon, K. Smith, H. Xu - **Los Alamos National Laboratory**
G. Reeves - **New Mexico Consortium**

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BEAMPIE – A SUBORBITAL TEST OF AN ACCELERATOR FOR SPACE APPLICATIONS

Q. R. Marksteiner†, R. J. Aragonez, B. E. Carlsten, C. Clanton, G. L. Delzanno, A. S. Guider, R. L. Hemphill, M. A. Holloway, R. H. Holmes, D. E. Patrick, V. Pavlenko, G. D. Reeves, C. D. Roper, J. Sheldon, K. Smith, H. Xu
Los Alamos National Laboratory, Los Alamos, NM

Abstract

The Beam Plasma Interactions Experiment (Beam-PIE) is a NASA sounding rocket experiment that deployed an electron accelerator in the ionosphere. The purpose of this experiment was to measure the ability of modulated electron beams to generate plasma waves in space. The Beam-PIE accelerator was designed using accelerator physics codes PARMELA and CST Microwave Studio. The design uses 3 solenoids to focus the beam, a cavity to accelerate …tic bends, called a chi-

The most promising methods of generating … waves in the magnetosphere involve directly inje… waves from a source that is deployed in space. T… Demonstration Science Experiment (DSX) [8] … m dipole that deployed in space. Evidence of wh… generation was found in the DSX mission, but it is not clear how efficiently the antenna radiated or if it was able to generate waves that modified the local plasma distribution.

Antennas in space need to be very large to radiate efficiently. The 1D whistler wave dispersion relation is:

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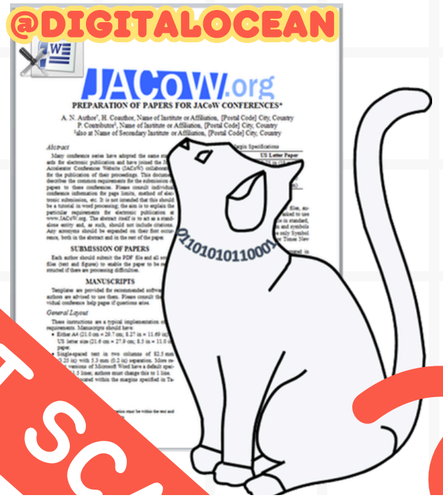
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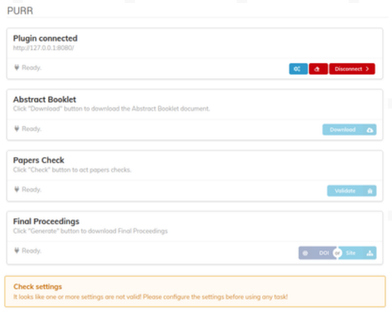


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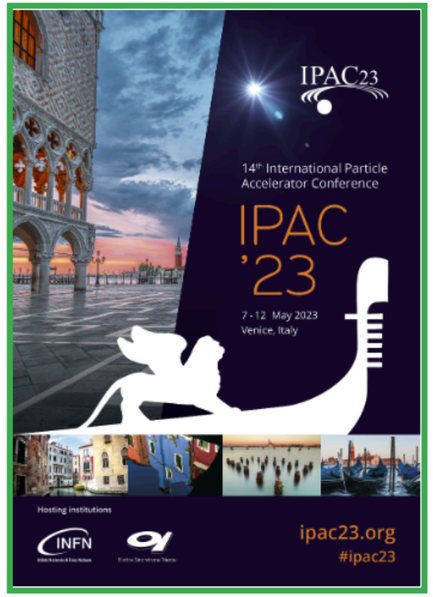
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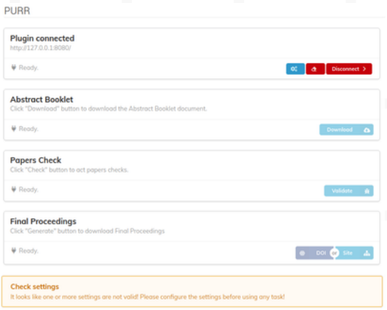


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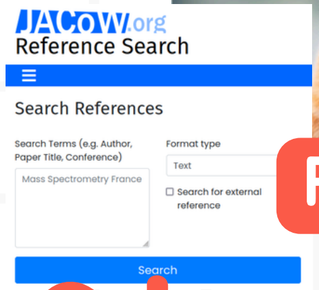
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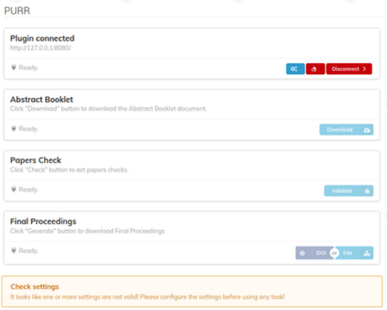


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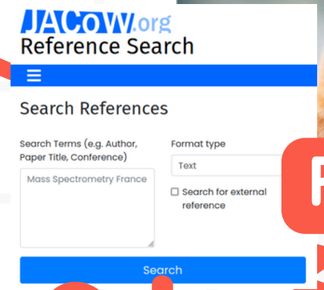
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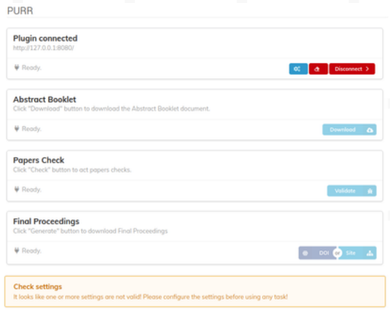
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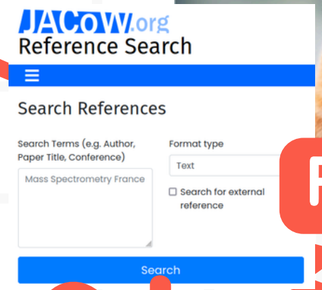
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THANKS

NO AI CATS WERE HARMED IN THE MAKING OF THIS SW



