2023 Collaboration Meeting- Dec 4-6, LNF



Updates from PubComm



























PubComm (actually Editorial Board + Speakers Committee)



Fernando Amaro left the PC (no longer in an academic position) Cristina Monteiro entered the PC in September

Current Composition:

- F. Petrucci (since Sept 2021, renewed in Sept 2023, chair since Oct 2022)
- A. Messina (since March 2022, to be renewed, if available, in March)
- G. Dho (since January 2023)
- C. Monteiro (since September 2023)
- + D. Pinci and E. Baracchini ex-officio as Spokespersons

There is a proposal to **enlarge** PC members number to cover several tasks:

- find/propose/follow-up interesting conferences;
- review slides and proceedings;
- check if presented material (numbers, plots, images) are "approved" (meaning? see next slide);
- review papers (follow up the procedure + acts as internal reviewers);
- check the author list (rather easy, but thorny and error prone ... see following slides);
- maintain (possibly improve!) our web pages.



PubComm – "approved" material



<u>Approved material definition:</u> the material that can be be shown at a conference or written in a proceeding.

PC reviewers cannot decide that on the spot (and usually in a short time).

Approved materials include:

- (obvious) numbers, plots and images taken from <u>already published material</u>;
- numbers, plots and images from <u>ongoing work/analysis</u>, only if "approved" in the relevant subgroup meeting and under the responsibility of the Working Package "leader":
 - "<u>blessed</u>" numbers and plot: not published, but solid and reliable (pay attention here if they are foreseen to go into a paper...)
 - approved results still in a <u>preliminary</u> form: results of an ongoing analysis that are still to be finalized but have already been deeply discussed in the meetings (with the writing "Preliminary" on top!)

All the material should be collected in dedicated pages.

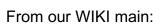
Also, material used for publication should be available (to avoid cut&paste with loss of quality)

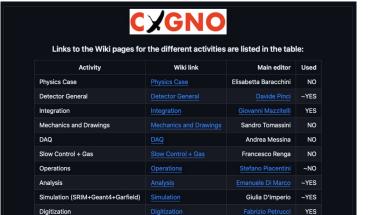




PubComm – "approved" material

https://github.com/CYGNUS-RD/WIKI-documentation/wiki



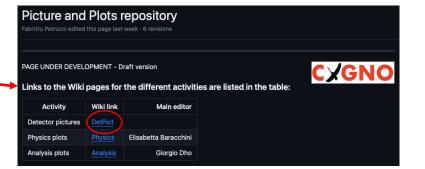


Steering Committee

Publication Committee

Pictures and Plots repository





YES

YES

YES



PubComm – author list



Rather easy: once there is a clear definition of "authorship", compiling the list is easy. Rules

are here: https://github.com/CYGNUS-RD/WIKI-documentation/wiki/Publication-Committee - Authorship (*)

Delicate: there could be cases which require a discussion that can be delicate sometimes

Error prone: it should be recompiled and formatted each time:

- authors changes in time (in, out, authors of a single publication)
- different journals requires a different formatting of the list both in terms of required informations (for example full names or shorten) and in the latex coding

(*) there is a discussion ongoing to review the rules; for example, requiring each author to do a minimum (tbd) of technical work in a given time span (tbd as well)

	Please fill collaborate	ors names and ins	stitutions in LaTex format (accents and sp	eial characters)								
	Please suggest a val	ue for the authors	hip status (1 means active standardautho	or; 0 means qualifyng author or N	IS) to be confire	ned by the PC						
LR:	Fabrizio Petrucci											
update date:	27/010/2023											
Institution 1	Dipartimento di Mate	matica e Fisica; U	niversit\`a Roma TRE; 00146; Roma; Italy									
Institution 2	Istituto Nazionale di I	Fisica Nucleare; S	ezione di Roma Tre; 00146; Rome; Italy									
# First Name	Middle Name	Last Name	e-mail	Institution 1	Institution 2	ORCID	abbreviation	authorship status	type of contract	start of activity in CYGNO (for newcomers)	end of contract	current activity
Fabrizio		Petrucci	fabrizio.petrucci@uniroma3.it	Dipartimento di Matematica e Fisi	Istituto Naziona	0000-0002-5278-2206	F. Petrucci	1	Permanent		-	LR - simulation - PC - SC



PubComm – the author list table

C/GNO Experiment

Each LR is required to fill and keep updated the author list table:

	Please fill collaborators names and institutions in LaTex format (accents and speial characters) Please suggest a value for the authorship status (1 means active standardauthor; 0 means qualifyng author or MS) to be confirmed by the PC									
LR:	Fabrizio Petrucci									
update date:	27/010/2023									
Institution 1	Dipartimento di Matematica e Fisica; Universit\`a Roma TRE; 00146; Roma; Italy									
Institution 2	Istituto Nazionale di	Fisica Nucleare; S	ezione di Roma Tre; 00146; Rome; Italy							
# First Name	Middle Name	Last Name	e-mail	Institution 1	Institution 2	ORCID				
Fabrizio		Petrucci	fabrizio.petrucci@uniroma3.it	Dipartimento di Matematica e Fisio	Istituto Naziona	0000-0002-5278-2206				





PubComm – Conferences

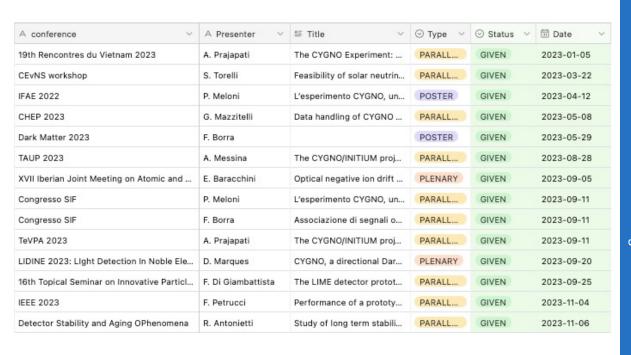


- 2017-2020: 5 poster + 13 Talks (possibly, something missing in the DB)
- 2021: 4 posters + 20 Talks
- 2022: 8 posters + 20 Talks
- 2023: 2+3 (*) posters + 12 Talks

(*) posters by Melba, Rita and David at the RD51 CERN School last week

Reduction in the last year...
Still, very good numbers for our small collaboration.

Congratulations!





PubComm - Papers published



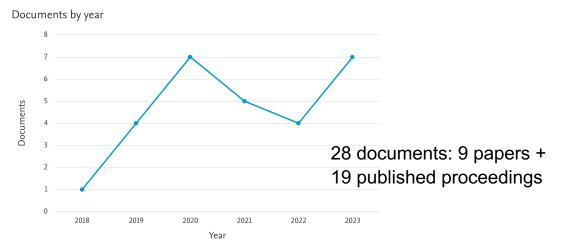
- 2020: 3 papers published (other 3 started, but published in 2021/2022)
- 2021: 2 papers published (all prepared in 2020, no new paper started!)
- 2022: 1 paper published (started in 2020; several other started...)
- 2023: 3 papers published (all started in 2022, several others in the pipeline)

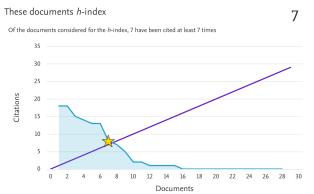
A Title ~	⊙ Status ∨	# ~	≅ Reference as ∨	A DOI V	A Journal ~
Noise assessment of CMOS Active Pixel sensors for the CYGNO Experiment	PUBLISHED	2023	B D Almeida et al 20	https://doi.o	Meas. Sci. Technol.
A 50 liter Cygno prototype overground characterization	PUBLISHED	2023	Amaro, F.D., Antonie	https://doi.o	Eur. Physics. J. C.
Directional DBSCAN to detect cosmic-ray tracks for the CYGNO experiment	PUBLISHED	2023	F.D. Amaro et al, Me	https://doi.o	Meas. Sci. Technol.
The CYGNO Experiment	PUBLISHED	2022	Amaro, F.D. et al. Th	https://doi.o	Instruments
Identification of low energy nuclear recoils in a gas TPC with optical readout	PUBLISHED	2021	E Baracchini et al 20	https://doi.o	Meas. Sci. Technol.
Performance of an Optically Read Out Time Projection Chamber with ultra-relativi	PUBLISHED	2021	V.C. Antochi et al. N	https://doi.o	NIM A
A density-based clustering algorithm for the CYGNO data analysis	PUBLISHED	2020	E. Baracchini et al, Jl	https://doi.o	JINST
First evidence of luminescence in a He/CF4 gas mixture induced by non-ionizing e	PUBLISHED	2020	E. Baracchini et al, Jl	https://doi.o	JINST
Stability and detection performance of a GEM-based Optical Readout TPC with H	PUBLISHED	2020	E. Baracchini et al, Jl	https://doi.o	JINST

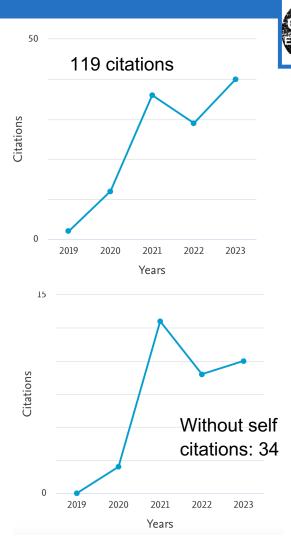




PubComm – citations metrics



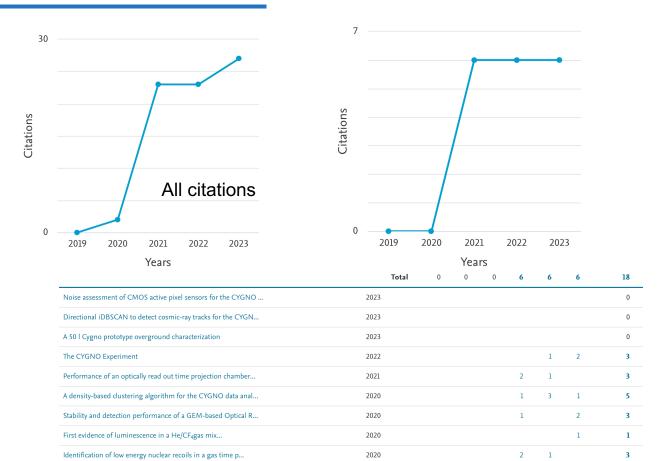






PubComm – published papers citations





Without Self citations



PubComm – Papers in pipeline



- 1. The <u>isobutane</u> paper (Cristina is c.a.) was submitted to Physics Letters B at the end of September and it's still under review from the journal. News are expected soon.
- 2. The paper on enhanced light yield (**ELY**) is still under PC review. The iteration with the appointed reviewers (Cristina and Ernesto) is ongoing. Few more days are required before the circulation in the collaboration.
- 3. The long overdue paper on **simulation** is being released to the PubComm.
- 4. The <u>NID</u> analysis review towards writing 2 papers on the subject paper is ongoing. Elisabetta is collecting ALL the information here:

https://drive.google.com/drive/folders/1_b3K9uLOOnoSwDJRfle1inbvCUXp14mM?usp=sharing
Status was updated by Elisabetta earlier.



PubComm – pubblications airtable

C/GNO Experiment

- The air table is a very useful source of information
- Easy query can be implemented to sort or search for specific infos
- Extremely useful when preparing reports (INFN committee, ERC, PRIN, etc etc ...)
- Please LR: <u>update it!</u>

