



International Particle  
Physics Outreach Group

International Particle Physics Outreach Group

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# IPPOG new webpages & RDB

Barbora Bruant Gulejova  
Strategic Development Lead, IPPOG

# Outline

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- ❑ New websites after alpha testing and feedback
- ❑ For IPPOGers – Documents organisation and collection
- ❑ IPPOG structured content at CDS
- ❑ IMC and Global Cosmics websites
- ❑ Resource Database
- ❑ Timeline / Plan
- ❑ Open discussion

# Alpha-testing of IPPOG main pages by IPPOG community!

<https://test-ippog-d8-clean.web.cern.ch/>

Available from TODAY 2<sup>nd</sup> of December 2020



## NOTE:

- ❑ Only [design](#), [sitemap](#) and [structure](#) is “final”
- ❑ [Content](#), [texts](#) and [images](#) are **not yet final** : will be updated next year

Reminder from last meeting!

- Check it out in details, PLEASE!
- Send us feedback through google doc
- Till 15<sup>th</sup> of January 2021



# Feedback after ALPHA - testing

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## Lot of feedback received:



- Google Doc – January 2021
- 2 dedicated feedback online sessions - February 2021
- Web SG meeting to decide on ambiguous feedback – March 2021

## Main topics from feedback:

- Change of order of items at the frontpage: News, Activities, RDB, About
- Main menu – content (simplified) and functionality (technical challenge)
- More aligned and coherent lay-out, fonts, colours, contrast...
- Many more...

# Feedback implementation

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February – May 2021

Long list (several hundreds) of specific changes applied:

- ❑ 6 ITERATIONS (see progress reports [31](#) and [32](#)) 
- ❑ NEW DESIGNS DEVELOPMENT and IMPLEMENTATION

# Web development management

DESIGN

WEB DEV

Good team!

IPPOG  
chairs



CERN  
Drupal  
experts

Regular  
 Iterative sprints  
 Feedback

IPPOG  
Web SG

CERN  
CDS



Global  
Cosmics SG

IMC SG

RDB Curation  
Group

<https://test-ippog-d8-clean.web.cern.ch/>

# Close to finished new IPPOG website

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<https://test-ippog-d8-clean.web.cern.ch/>

- ❑ [Design](#), [sitemap](#) and [structure](#) is “**final**”
- ❑ [Texts](#) and [images](#) are **not yet final** : under the development

# MAIN MENU

Only when signed in



About

Resources

Activities

News

Events

For IPPOGers



- Goals
- Vision
- Mission
- Structure
- Members and people

International Cosmic Day

Hover: see submenu  
Click: enter subpage

Technically challenging,  
coding involved,  
but maintainable.

Explore the foundations  
of the universe!



# FRONTAPGE / NEWS and EVENTS: What's new



International Particle  
Physics Outreach Group

[About](#)

[Resources](#)

[Activities](#)

[News](#)

[Events](#)

[For IPPOGers](#)



## What's new



[VIEW ALL NEWS](#)

[VIEW ALL EVENTS](#)

2 news

1 event

## Activities

9 21<sup>th</sup> IPPOG meeting, 19 May 2021, online

IPPOG new webpages & RDB



International Particle  
Physics Outreach Group



# Frontpage – change of order

International Particle Physics Outreach Group

About Resources Activities News Events

## Activities

### International Masterclasses

### Global Cosmics

### Projects and competitions

#### International

- Particles 4u
- Girls do physics!

#### National

- Creating Ambassadors for Science in Society
- Music festival in Slovakia

[View all](#)

## IPPOG Resource Database

### From wonders to excitement

Example of text (might be changed in the future)  
We contribute to global efforts in strengthening cultural awareness, understanding and support of particle physics and related sciences and in developing the next generation of researchers. More specifically, IPPOG's purpose is to raise standards of public outreach and science education efforts.

#### Matter, Particles and Universe

#### Exploring the Unknown

#### Technologies and Experiments

#### Particle Physics and Society

[Search for more](#)

Scroll down

## About IPPOG

Example of text (will be changed in the future)  
IPPOG is a network of scientists, science educators and communication specialists working across the globe to informal science education and outreach for particle physics. Particle physics is the science of matter, energy, space and time. [Read more](#)

- Goals
- Vision
- Mission
- Structure
- Members and People

### Members

### Calendar

### Gallery

### Contacts

International Particle Physics Outreach Group

[IPPOG meetings](#) [Publications](#) [Calendar](#)

[IPPOG at CERN](#) [Press](#) [For IPPOGers](#)

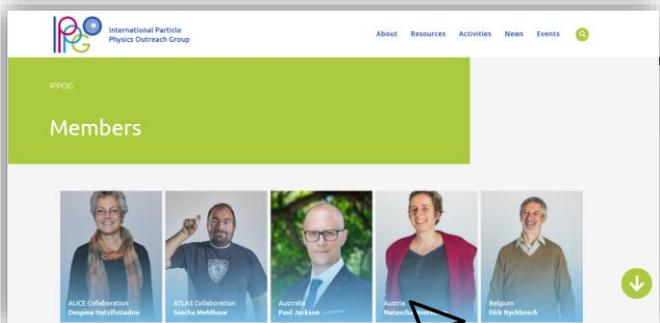
[Members Webinars](#) [Contacts](#) [Gallery](#)

[JOIN US](#) [GET IN TOUCH](#)

IPPOG Collaboration © 2021 CERN

Scroll down

# Members and people

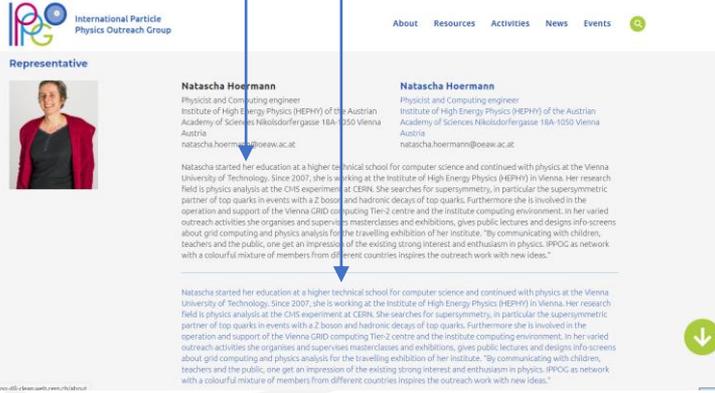
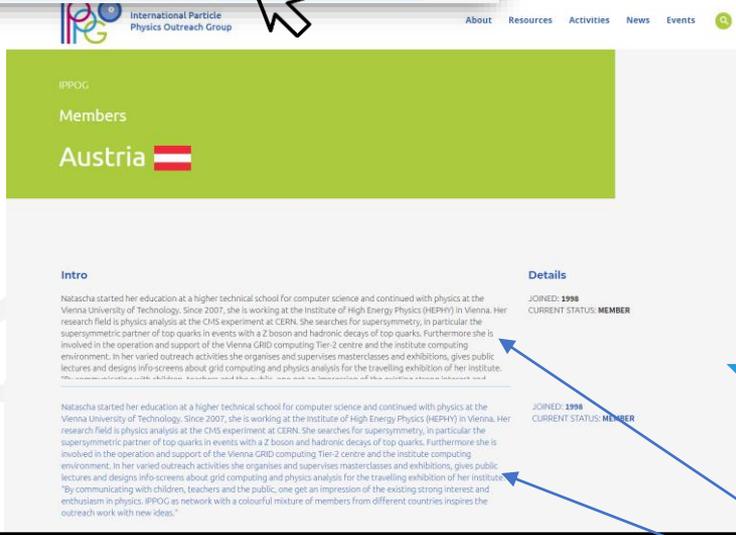


## Bio of representative:

- English
- Local language

Scroll down

Scroll down



## Description of member:

- English
- Local language



# Members and people page



International Particle  
Physics Outreach Group

About Resources Activities News Events



Here will be explained that IPPOG has different types of membership.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis tristique convallis scelerisque. Mauris interdum justo in odio luctus blandit. Pellentesque mattis blandit mi, quis pharetra neque aliquet in. Pellentesque egestas, neque eu maximus rutrum, justo leo condimentum quam, et finibus urna turpis id enim. Mauris consequat felis nec eros interdum lobortis. Suspendisse eu accumsan orci, a malesuada leo. Vestibulum sapien purus, euismod nec urna ac, dapibus consequat dolor. Sed

## Members

LEARN MORE

## Associate Members

LEARN MORE

CB members invite official Forum members associated with specific Member.



IPPOG Forum

10-d8-clean.web.cern.ch/members

Includes Coordination team, Activities Coordinators, Former Chairs and Former Staff



IPPOG Core Team



Partners and  
Contributors



# Global Cosmics

International Particle Physics Outreach Group

About Resources Activities News Events

ACTIVITY

## Global cosmic rays portal

### Projects for High School Students

There are several projects around the world that address young people and teachers, to give them the opportunity to explore cosmic particles. These projects are presented below. For further information, please visit the websites.

- Astroparticle Physics
- Projects
- Events
- Requests
- How to obtain a detector for your classroom?
- Map
- About

### Astroparticle Physics

Projects

Finland	CALLIO LAB
France	Sciences à l'école, Cosmo@l'école, PERON
Germany	COSMIC@WEB, FEISCHBERG
Italy	Extreme Energy Events, INFN
Poland	CREDO
Japan	探Q
Russia	Showers of Knowledge
Spain	
Sweden	
Taiwan	QuarkNet-TW
UK	UNIVERSITY OF BIRMINGHAM, HSPARC, QuarkNet Centre
USA	QuarkNet

International Particle Physics Outreach Group

About Resources Activities News Events

## Global cosmic rays portal

Menu

### About

>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum efficitur justo sit amet Leo vulputate elementum. Morbi ac elit convallis, eget massa sit amet, vestibulum augue. Nam non leo et orci ullamcorper hendrerit. Maecenas vel libero in nunc efficitur lacus quis at lacus. Aliquam cursus sollicitudin luctus. Proin laoreet ex lacus, et consectetur sapien vehicula vitae. Aenean aliquet tortor velit. Vestibulum aliquet ornare pharetra. Quisque eget hendrerit erat. Nullam aliquam imperdiet ipsum id tempor. Suspendisse eget mi malesuada, congue enim non, lobortis neque. Nullam non sagittis tellus.

### Finland

CALLIO LAB  
Underground Center for Science and R&D

Callio Lab is a new environment for underground research and other activities.

### France

Sciences à l'école  
Cosmo@l'école  
PERON  
Plateforme Educative Rayons cosmiques et muons

### Germany

COSMIC@WEB  
Das Webinterface von physik begreifen in Zeuthen  
NETZWERK TEILCHENWELT

### Italy

Extreme Energy Events  
INFN

# Global Cosmics Projects Pages

International Particle Physics Outreach Group

About Resources Activités News Events

## Cosmos à l'École

Intro  
Website

Sciences à l'École

**INTRO**

In France, a collaboration started several years ago between the "Institut National de Physique Nucléaire et de Physique des Particules" (IN2P3) of the CNRS and "Sciences à l'École", a project from the French Education Ministry which is promoting science in high schools and higher education. Large cosmic ray detectors called "Cosmodétecteurs" are built in the Marseille IN2P3 laboratory (CPPM) and given to high school teachers selected by "Sciences à l'École". These teachers are trained prior to receiving the detector – a one week-long seminar at CERN, part of the High School Teacher program, plus a technical course in Marseille to learn how to use the apparatus. These teachers then exchange information through a dedicated internet forum and present the educational activities they develop with their Cosmodétecteur. There are currently 30 such detectors in France and 15 more will be released in 2017.

Experiment 1 Experiment 2

Enter Cosmos à l'École website

JOIN OUR NEWSLETTER

PROPER URL (as part of GC portal):  
<https://ippog.org/global-cosmics/cosmos-lecole>

## NEXT STEPS:

- Global Cosmics SG meeting in June
- Validation of designs
- Input from projects: image + text

Sliding show

# Calendar / Events

## Calendar

### Upcoming Events



Search bar with a magnifying glass icon and a search button.

Apply

<p>THURSDAY <b>11 FEB /21</b> — 27 MAR /21 00:12 (Europe/Zurich) <b>Hands on particle physics</b> Event</p>	<p>THURSDAY <b>13 MAY /21</b> — 14 MAY /21 11:00 (Europe/Zurich) <b>Worldwide Data Day</b> Event   CERN</p>	<p>FRIDAY <b>14 MAY /21</b> — 19 MAY /21 12:00 (UTC) <b>Girls' Masterclasses</b> Event   Zurich</p>
<p>WEDNESDAY <b>19 MAY /21</b> — 20 MAY /21 20:00 (Europe/Zurich) <b>International Cosmic Day</b> Event</p>	<p>THURSDAY <b>20 MAY /21</b> — 21 MAY /21 18:00 (Europe/Zurich) <b>Girls' Masterclasses</b> Event</p>	<p>THURSDAY <b>8 JUL /21</b> — 4 AUG /21 18:00 (Europe/Zurich) <b>A Beamline For Schools</b> Event</p>

### Past Events

THURSDAY  
**11 FEB /21** — 27 MAR /21  
00:12 (Europe/Zurich)  
**Hands on particle physics**  
Event



Scroll down



IPPOG Collaboration © 2021 CERN

<a href="#">IPPOG meetings</a>	<a href="#">Publications</a>	<a href="#">Calendar</a>
<a href="#">IPPOG at CDS</a>	<a href="#">Press</a>	<a href="#">For IPPOGers</a>
<a href="#">Member Websites</a>	<a href="#">Contacts</a>	<a href="#">Gallery</a>

[JOIN US](#) [GET IN TOUCH](#)

# Structured organisation of IPPOG documents & data



About Resources Activities News Events For IPPOGers

For IPPOGers



## BIG EFFORT

- Already done (Barbora)
- Still needed (IPPOGers)

## Links from new CDS collections

[IPPOG Collaboration Documents](#)

[IPPOG Reports](#)

1. CB reports

2. Annual reports

3. Meeting reports

[IPPOG Financial documents](#)

[IPPOG Committees and Advisory boards](#)

[IPPOG Steering Groups](#)

[IPPOG Working Groups](#)

[IPPOG at CDS](#)

[IPPOG Portraits](#)

### Latest Items

- Upcoming IPPOG meeting 19-21 May 2020
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# New organisation of IPPOG at CDS

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## New changes:

- IPPOG much more visible on CDS
- Submission in less clicks
- New categorisation
- New links to collections / categories

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# New organisation of IPPOG at CDS

## CERN Document Server

Articles, rapports et multimédia de la physique des hautes énergies

Recherche Soumettre Aide Personnaliser

Chercher dans 687,929 notices:

Recherche

Conseils de recherche  
Recherche avancée

Add to Search

Before IPPOG was below archives

- Articles & Preprints (434,875)
  - Published Articles (338,421) Preprints (338,056) Theses (9,682) Reports (8,458) CERN Notes (80,728) Committee Documents (28,328)
- Books & Proceedings (158,533)
  - Books (32,724) Proceedings (24,664) Standards (33,888) Design Reports (34)
- Presentations & Talks (19,488)
  - Conference Announcements (7,435) Academic Training Lectures (339) Summer Student Lectures (3,347) General Talks (9,615) E-learning modules (54)
- Periodicals & Progress Reports (2,424)
  - Periodicals (2,348) Progress Reports (76)
- Multimedia & Outreach (109,768)
  - Photos (18,834) Press (71,364) Audio Archives (207) Exhibition Objects (347) Restricted Exhibition Objects (0) Posters (1,316) Brochures (249) HEP Institutes (2,983) Experiments at CERN (1,348) Education and Outreach Resources (33) Video Lectures (2,882) Graphics (7)

Videos collection has been moved to: [videos.cern.ch](https://videos.cern.ch)
- International Collaborations (68)
  - IPPOG (68)

### CERN Articles & Preprints (332,433)

CERN Published Articles (303,002) CERN Preprints (22,218) CERN Theses (9,626) CERN Reports (9,190) CERN Notes (80,728) Committee Documents (28,328)

### CERN Series (36,424)

CERN Annual Reports (330) CERN Yellow Reports (2,210) CERN Yellow Report Articles (7,646) CERN-TH (35,678) Academic Training Lectures (339) Summer St

### CERN Departments (306,409)

Physics (PH) (23,838) Research & Computing Sector (342,942) Theoretical Physics (TH) (15,396) Information Technology (IT) (83,057) Accelerators & Technology  
International Relations (92,732) Directorate Services Unit (DSU) (30,349) Finance and Procurement (FP) (18,547) Human Resources (HR) (5,385) Finance and A

### CERN Accelerators (35,017)

All CERN Accelerators documents (30,287) PS Complex (2,187) SPS and CNGS (7,217) LHC (3,036) Projects, Upgrade and Consolidation Projects (437) R&D in  
Accelerators and Facilities outside CERN (18) Technologies, Systems, Accelerator Physics and Processes (3,842)

### CERN Experiments (302,043)

LHC Experiments (84,098) LEP Experiments (60,927) Fixed Target Experiments (3,662) PS Experiments (746) ISOLDE (3,388) MEDICIS Internal Notes (33) Rec

### CERN R&D Projects (4,802)

EU Projects (3,240) CERN Detector R&D Projects (759) CERN Accelerator R&D Projects (1,438)

### Archives (47,123)

CERN Archives (37,408) Pauli Archives (1,189) DSU Archives (719) CERN Website (4,838) Software Documentation (348)

### Rechercher également dans:

- INSPIRE
- KISS Preprints

# New organisation of IPPOG at CDS

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# New organisation of IPPOG at CDS

**CERN Document Server**  
Access articles, reports and multimedia content in HEP

Search Submit Help Personalize Administration

Home > Submit > Find where to submit

## Find where to submit

Find where to submit

Select the CERN organisational unit to find out the available submissions :

Accelerators and Technology	▶	Experiments Committees	▶	IPPOG	▶	IPPOG Documents
Research and Computing	▶	European Project Documents	▶			IPPOG CB Documents
Finance and Human Resources	▶	CERN Open Documents	▶			IPPOG Photos
International Relations / Communications	▶	Pension Fund	▶			<b>IPPOG Resources</b>
Direction Générale	▶	Staff Association	▶			
<b>Others</b>	▶	EPPCN Forum Documents	▶			
Swedish School Association	▶	Clubs	▶			
		Departmental Claim	▶			
		International Collaborations	▶			

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Direction Générale	▶			
Others	▶			
<b>International Collaborations</b>	▶			

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**CERN Document Server**

Search Submit Help Personalize

Home > International Collaborations > IPPOG

## IPPOG

Search 68 records for:

Search [Search Tips](#) [Advanced Search](#)

[Add to Search](#) +

Narrow by collection:

- IPPOG Documents (10)
- IPPOG Unapproved Documents (17) [restricted]
- IPPOG CB Matters (1) [restricted]
- IPPOG CB Matters Unapproved (0) [restricted]
- IPPOG Photos (40)
- IPPOG Unapproved Resources (0) [restricted]
- IPPOG Resources (0)

**CERN Document Server**

Search Submit Help Personalize

Home > International Collaborations > IPPOG > IPPOG Documents

## IPPOG Documents

Search 10 records for:

Search [Search Tips](#) [Advanced Search](#)

[Add to Search](#) +

IPPOG Documents

Browse by document type or use the search above.

- MOU and associated
- Annual reports
- Publications
- Conference Notes
- Conference Proceedings
- Conference Slides
- Posters
- Newsletters
- Public relations

Latest additions:

2020-12-21 12:32 **Future Challenges in Particle Physics Education and Outreach** / Beck, Hans Peter (Universitaet Bern (CH)) ; Goldfarb, Steven (University of Melbourne (AU))

This document is meant to serve as input from the IPPOG Collaboration for the open call for the European Particle Physics Strategy Update 2020. It emphasizes physics today and beyond when envisaging new large-scale projects. [...]

New collections by category  
Links to “For IPPOGers”

PLEASE, SUBMIT, SUBMIT, SUBMIT!!!!

# Structured organisation of IPPOG documents & data



About Resources Activities News Events For IPPOGers

For IPPOGers



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## PLEASE, COMPLETE / CORRECT

Dedicated websites with all information



# New organisation of IPPOG at CDS



About Resources Activities News Events For IPPOGers

FOR IPPOGers

## IPPOG Working Groups

Several Working Groups have been established in IPPOG in order to develop / expand different activities and work on various deliverables. These are mostly long-standing bodies meeting at least twice a year and reporting at IPPOG meetings. Today IPPOG has following working groups:

### Explaining Particle Physics to Lay Audiences WG

[LEARN MORE](#)

### Outreach of applications for society

[LEARN MORE](#)

### Exhibits and Public Events

[LEARN MORE](#)

### IMC-to-New-Countries WG

[LEARN MORE](#)

### IPPOG RDB WG

[LEARN MORE](#)

# New organisation of IPPOG at CDS



International Particle  
Physics Outreach Group

[About](#) [Resources](#) [Activities](#) [News](#) [Events](#) [For IPPOGers](#)

[View](#) [Edit](#) [Delete](#) [Manage display](#) [Revisions](#) [Close](#)

FOR IPPOGers

## IMC-to-New-Countries WG

### Mandate

Description text

### Conveners



Uta Bilow



Ken Cecire

### Members

BECK, Hans Peter  
ABREU, Pedro  
BRUANT GULEJOVA, Barbora  
FOKA, Yiota  
GOLDFARB, Steve  
HATZIFOTIADOU, Despina  
KOBEL, Michael  
KRAMMER, Natascha  
LAPKA, Marzena  
RAO, Achyntia  
SHAW, Kate  
WOZNIAK, Krzysztof Wieslaw  
YACCOB, Sahal  
ZABOROWSKA, Anna

### Meetings

[Link to indico page](#)

[LEARN MORE](#)

### E-group

[IPPOG-MC-to-New-Countries@cern.ch](mailto:IPPOG-MC-to-New-Countries@cern.ch)

Scroll down

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About Resources Activities News Events For IPPOGers

For IPPOGers



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## TO DO / Pending issues

Dedicated websites with all information



# Close to finished new IPPOG website

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<https://test-ippog-d8-clean.web.cern.ch/>

- ❑ [Design](#), [sitemap](#) and [structure](#) is “**final**”
- ❑ [Texts](#) and [images](#) are **not yet final** : under the development

Chance to send me requested information for all who didn't yet (till 10<sup>th</sup> June):

- Updated bio
- Member description
- National website with PP outreach material (if exists)
- Photos suitable for website

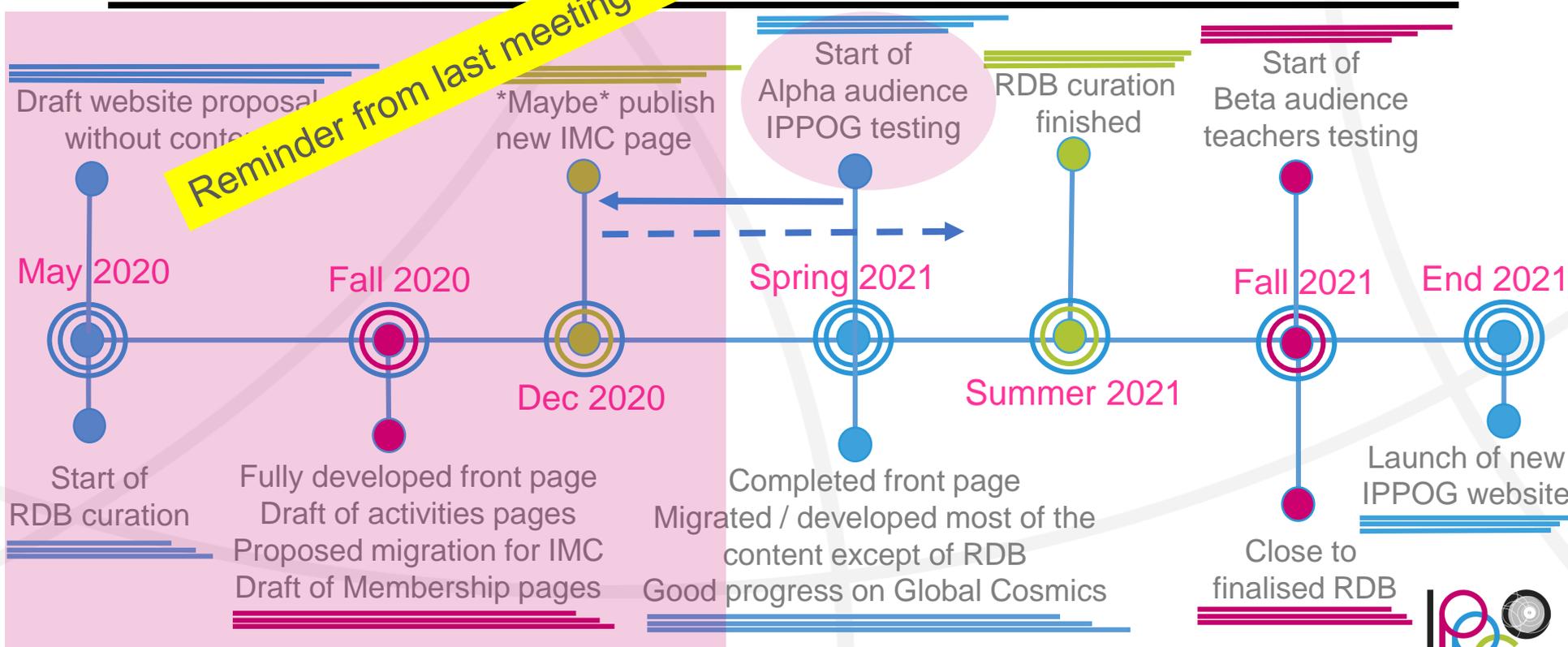
**PLAN:** fill in all available information in June 2021

**BETA-TESTING** end of **JUNE 2021!!!** (~ in 1 month from now...)

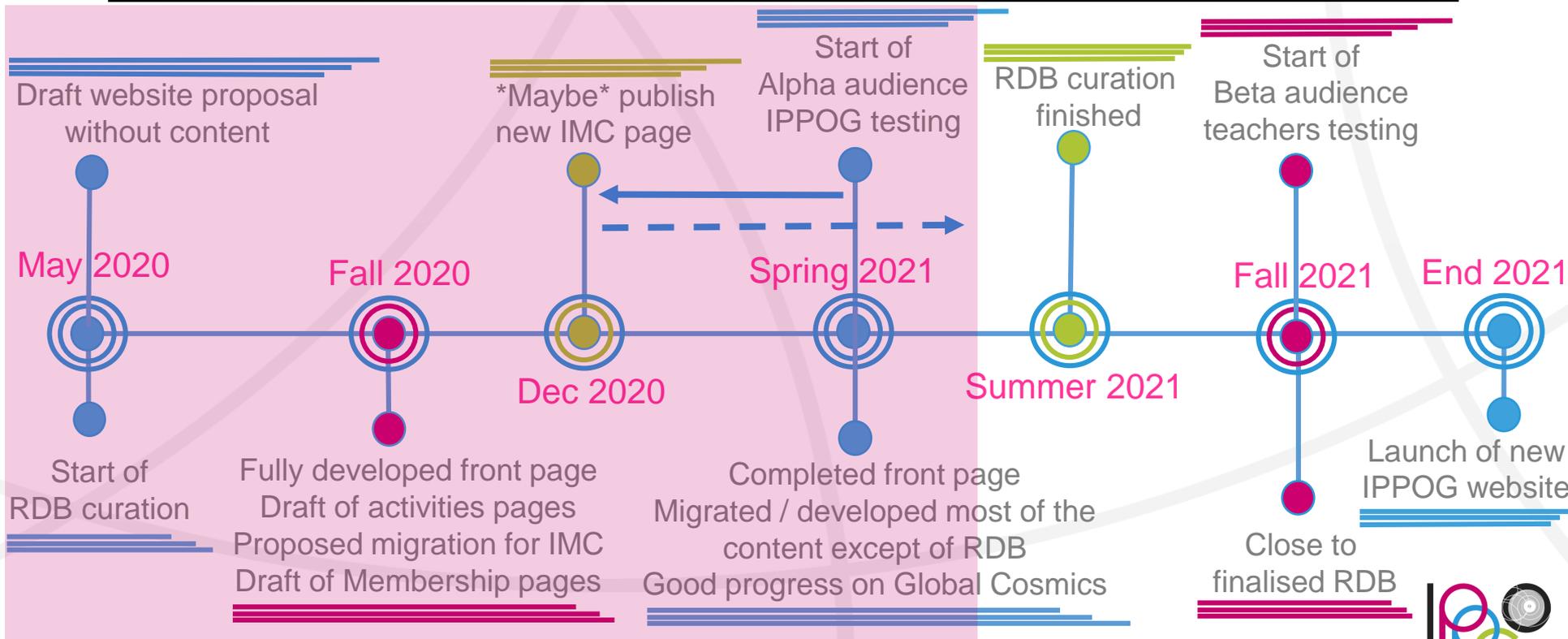


# Revised IPPOG website preliminary plan

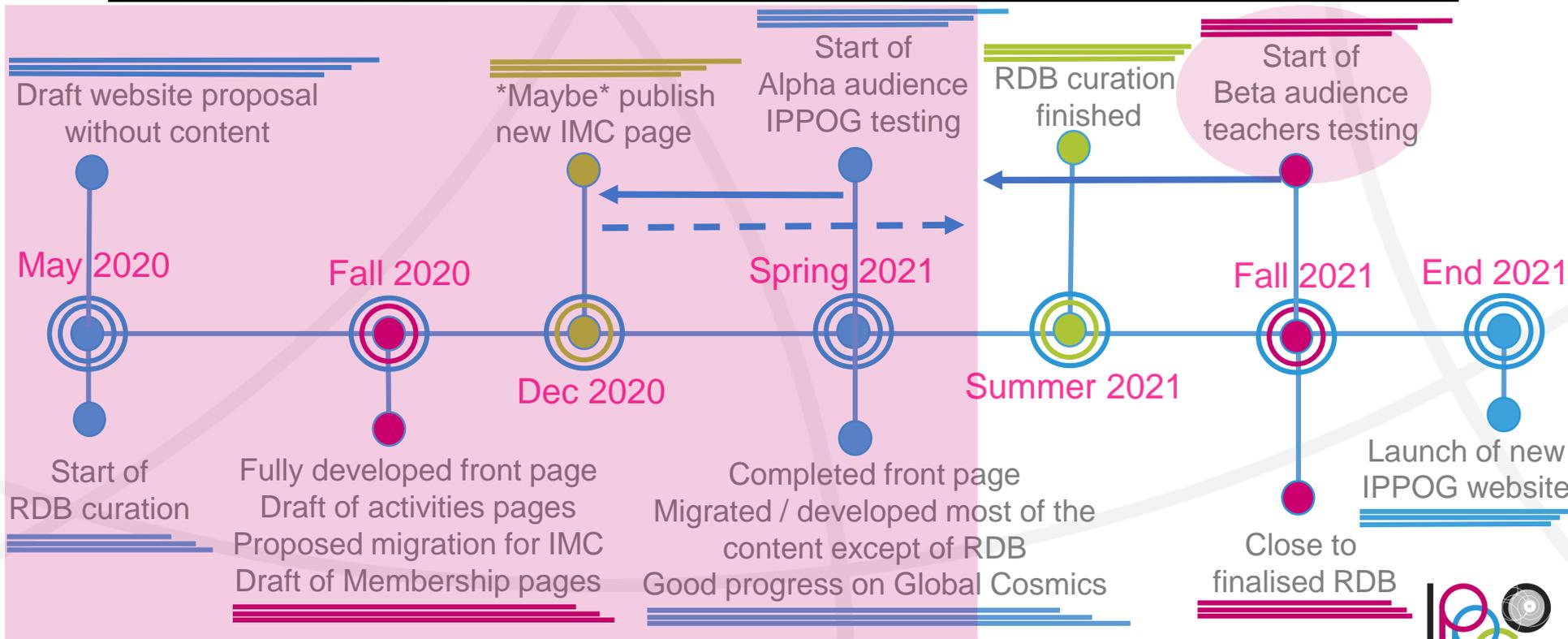
Reminder from last meeting - December 2020



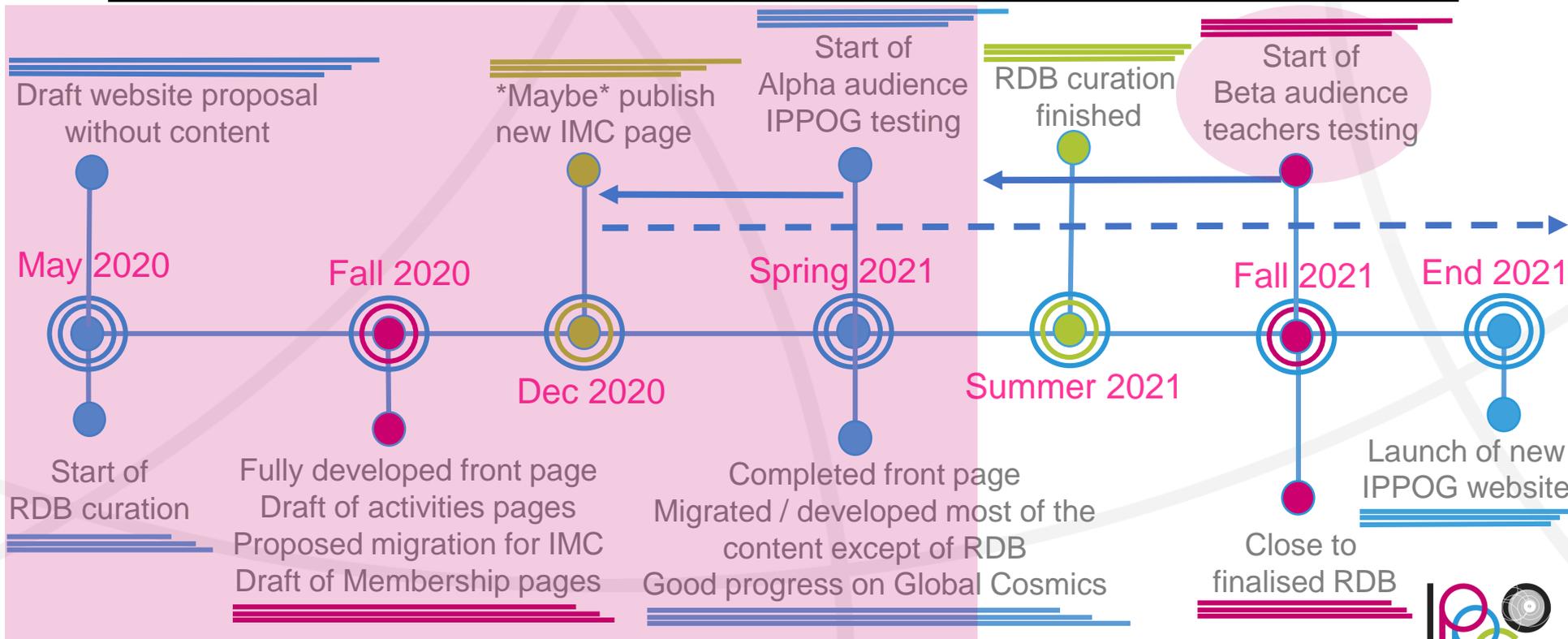
# Revised IPPOG website preliminary plan



# Revised IPPOG website preliminary plan



# Revised IPPOG website preliminary plan



# PLAN till the end of 2021

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- ❑ Beta-testing launched end June 2021
- ❑ Feedback & content proposals collected during summer break

No guarantee for implementing anything what comes after 15<sup>th</sup> September

- ❑ Website published in November / beg. December 2021



- **Global Cosmics** - OK
- **RDB** – still huge job - hopefully OK (depends on input from IPPOG)
- **IMC** – next year - advanced design, but not yet green light from IMC SG to implement  
- not necessary condition to publish IPPOG Website

# Visibility / «Foundability» on internet



particle physics

Tous Actualités Images Vidéos Livres Plus Paramètres Outils

Environ 151 000 000 résultats (0,68 secondes)

https://en.wikipedia.org › wiki › Part...  
**Particle physics - Wikipedia**  
 Particle physics (also known as **high energy physics**) is a branch of **physics** that studies the nature of the **particles** that constitute matter and radiation.

https://en.wikipedia.org › wiki › Sta...  
**Standard Model - Wikipedia**  
 The Standard Model of **particle physics** is the theory describing three of the four known fundamental forces in the universe, as well as classifying all known ...

https://www.quantamagazine.org › a...  
**A New Map of the Standard Model of Particle Physics | Quanta ...**  
 22 oct. 2020 — In the 1970s, **physicists** developed a set of equations describing these **particles** and interactions. Together, the equations formed a succinct ...

https://home.cern › science › physics  
**The Standard Model | CERN**  
 But luckily for **particle physics**, when it comes to the minuscule scale of particles, the effect of gravity is so weak as to be negligible. Only when matter is in bulk, at ...

https://www.amazon.fr › Modern-Particle-Physics-Profe...  
**Modern Particle Physics - Thomson, Mark - Livres - Amazon.fr**  
 Noté /5. Retrouvez Modern **Particle Physics** et des millions de livres en stock sur Amazon.fr. Achetez neuf ou d'occasion.

https://www.nature.com › subjects  
**Particle physics - Latest research and news | Nature**  
 Definition. **Particle physics** is the study of the elementary building blocks of matter and radiation and their interaction. The fundamental **particles** are summarised by the standard model.

Scroll down

https://www.interactions.org › Traduire cette page  
**Interactions.org - Particle physics, high energy physics, news ...**

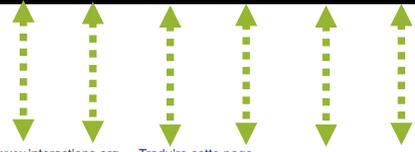
https://www2.physics.ox.ac.uk › part...  
**Particle physics | University of Oxford Department of Physics**  
 Exploring fundamental **physics** with **high-energy** colliders ... The group studies the properties of neutrinos, one of the most abundant **particles** in the Universe.  
 Head of Particle Physics : Professor Daniel... Particle Physics Secretary : Mrs Sue Ged...

https://www.southampton.ac.uk › pa...  
**Particle Physics (Research Year) | University of Southampton**  
 Study the MPhys **Particle Physics** degree at Southampton University - the only UK university to offer a 1 year placement at CERN working on the Large Hadron ...

https://europeanstrategy.cern › Traduire cette page  
**Home | European Strategy for Particle Physics Update**  
 Mandated by the CERN Council, it is formed through a broad consultation of the grass-roots **particle physics** community, it actively solicits the opinions of physicists ...

https://ippog.org › Traduire cette page  
**Home | ippog.web.cern.ch**  
 The **International Particle Physics Outreach Group (IPPOG)**. IPPOG is a network of scientists, science educators and communication specialists working across ...  
 Vous avez consulté cette page 5 fois. Dernière visite : 11/04/21

< **Google** >  
 Précédent 1 2 3 4 5 6 7 8 9 10 Suivant



**33th place**

Website must have **METATAGS (keywords)**

**IPPOG TO DO by end of October 2021:**

Define metatags for each subpage of **IPPOG webpages**

**IPPOG WIKIPEDIA**

Volunteers... (Darren)



# IPPOG Resource Database - Outline

---

- ❑ Website preview / new look - reminder
- ❑ Status quo, Goals & Challenges
- ❑ Technical part: Drupal – CDS interface
- ❑ Content: old and new
- ❑ New RDB WG
- ❑ Timeline / Plan
- ❑ Open discussion

# New IPPOG RDB website preview



International Particle  
Physics Outreach Group

[About](#) [Resources](#) [Activities](#) [News](#) [Events](#) [For IPPOGers](#)



## SEARCH:

1) Choose physics topic  
(from picture)

2) Filter in search  
engine

## IPPOG Resource Database

### *From wonders to excitement*

A collection of high quality engaging materials e.g. videos, posters, talks, hands-on activities and more to help you share the wonders and excitement of particle physics with teachers, students and the general public. At the bottom of this page you'll find also the collection of webpages of IPPOG members containing resources in their national languages.

Matter, Particles and Universe  
(Known Physics)

Exploring the Unknown  
(Beyond Known Physics)

Technologies and Experiments

Particle Physics and Society



7 new webpages & RDB



International Particle  
Physics Outreach Group

## Random Selection

Enjoy the random selection of featured resources in English below. Search the database by clicking on topic tabs above or filter on the right.



04 September, 2020

### Hidden Pieces: The LHC and our Dark Universe

Public presentation on current particle physics research at the LHC.

Read more

**DARK ENERGY**  PRESENTATIONS (PPT,PDF) **ENGLISH** **BROAD PUBLIC**

## Search the RDB

### KEYWORD

Topic

- Any -

Type / Category

- Any -

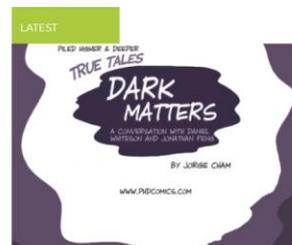
Audience

- Any -

Language

English

Search 



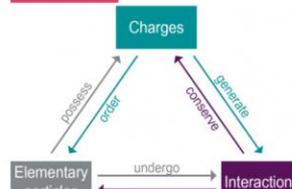
### PhD TV: Dark Matters

Through hand drawn illustrations, this video creatively explains the basics on what we...

Read more

**EXTRA DIMENSIONS**  **VIDEOS** **ENGLISH** **BROAD PUBLIC**

### FEATURED



04 September, 2020

### laradioactive.com

Website created and maintained by physicists to introduce radioactivity and present its...

Read more

**DETECTORS**  **ANIMATION / SIMULATIONS** **ENGLISH** **BROAD PUBLIC**



04 September, 2020

### MJF 2015: The Physics of Music & The Music of Physics

Material from the 3rd annual Physics of Music / Music of Physics workshop held at the...

Read more

**DARK MATTER**  **ANIMATION / SIMULATIONS** **ENGLISH** **BROAD PUBLIC**



03 September, 2020

### Teaching the Standard Model with charges and interactions

This article outlines the teaching approach of Netzwerk

# SEARCH:

1) Choose physics topic (from picture)

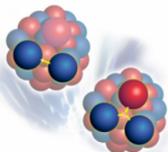
2) Filter in search engine

- Order of items according the ranking

- Otherwise RANDOM selection changing at each refresh...

NOW: Only few items for illustration  
No real submissions...

Which particle is the mediator of the strong force?



1

A. Neutralino

B. Z boson

C. Gluon

D. Quark

03 September, 2020

### Quiz for International Masterclasses (IMC)

This multiple-choice quiz is designed for high school students and is used in the...

[Read more](#)

[ACCELERATORS](#)
[CLASSROOM MATERIALS / TUTORIALS / LESSONS PLANS / TEXT BOOKS](#)
[ENGLISH](#)
[UPPER SECONDARY SCHOOL LEVEL](#)

1 2 >



## Contribute Now!

Nam elementum convallis nibh at auctor. Integer fermentum nunc non tellus convallis molestie. Phasellus id orci nunc. Nullam sit amet suscipit magna. Nunc sit amet purus nunc. Nunc vitae tempor lectus. Nulla gravida augue vel nunc auctor, nec malesuada lorem commodo. Sed finibus congue nulla, ac aliquet odio commodo sit amet. Nullam sit amet mauris malesuada, sagittis nunc hendrerit, vestibulum velit. Vestibulum quis blandit ex. Duis nec volutpat dui.

[Become a contributor](#)

[Add a resource](#)

## USER FRIENDLY SUBMISSIONS:

- Clear instruction
- Form for contributors



Member Websites

[LEARN MORE](#)



IPPOG new webpages & RDB

# What is IPPOG Resource Database?

---

From official IPPOG's communications

## RDB is:

- *online platform to facilitate the exchange of PP E&O resources across the globe*
- *collection of high-quality engaging materials (e.g. videos, posters, talks, hands-on activities, tools, brochures and more)*
- *recommended by IPPOG representatives and contributors*
- *to share wonders and excitement of PP with teachers, students and general public*
- *readily understandable and regularly updated to reflect the latest discoveries in PP*

# IPPOG RDB: from HISTORY to STATUS QUO

---

## History:

- *Idea born in 2009: transformation of EPPOG from a “discussion forum” to a possible world leader in informal scientific E&O activities for PP and related fields.*
- *Initially “EPPOG Best Practice Database” meant to be used by science institutions and laboratories for outreach and informal science education purposes*
- *self-sustaining, users vote on highest quality & most useful items to be best practice*
- *First version released in 2011*

## Status 10 years later:

- *IPPOG contributors continued to submit items published after IPPOG chairs approval*
- *5-10 new items each year & no more submissions since 1 year*
- *~ 370 items: many of them 10 years old...*

# IPPOG RDB: from STATUS QUO to VISION

---

IPPOG is a platform for (has a potential to):

- *sharing, developing and improving*
- *explanatory and teaching materials, strategies, methods, activities and tools*
- *to reach broader audiences*
- *based on the world best practices in E&O of PP and related sciences*

***“IPPOG wants the new website to become more open to students, teachers and the general public, and for the RDB to become the primary source of particle physics outreach material in the world.”***

# IPPOG Resource Database Challenges

---

## TECHNICAL

- Interface between CDS and Drupal

## CONTENT

- Curation of existing / “old” items
- Collection of new / up-to-date best items

## TIME

- RDB populated and published by November 2020

# IPPOG RDB: CDS – Drupal Interface

## RDB resources will be stored at CDS

– safe and makes Drupal website lighter

## Dedicated submission form at CDS

- ✓ CDS: IPPOG / Resources
- ✓ new IPPOG RDB taxonomy
- ✓ all fields which we need to display for RDB item

## Interface from CDS to Drupal

- ✓ Connection does not exist, we must create it: BLIND company
- ✓ Program will automatically fetch data from CDS after the submission / approval and display at RDB website

## CERN Document Server

Access articles, reports and multimedia content in HEP

In-Kind contribution from CERN

- Several discussions & interactive sprints
- Ready now 👍

To be ready for september

# CDS RDB submission form

Search Submit Help Personalize

Home > Submit > Find where to submit > Submit Information

## Submit Information

NOTICE: unfinished submissions will be discarded after 365 days since last access.

Find where to submit Submit Information page: 1 SUMMARY(?)

IPPOG - Resources submission

Start by typing an author name and suggestions will become available to choose from.  
If you wish to enter a custom author please use this format: "Lastname, Firstname: Affiliation"

Type an author name

Title:

Type:  (cannot be changed later)

Description/Body:

Date of submission: (dd/mm/yyyy)

Language:

Free KeyWords/KeyPhrases (one per line):

Topic:

MATTER, PARTICLES AND UNIVERSE  
EXPLORING THE UNKNOWN  
TECHNOLOGIES and EXPERIMENTS  
PARTICLE PHYSICS AND SOCIETY (multiple selection allowed)

Subtopic:

--- MATTER, PARTICLES AND UNIVERSE ---  
PARTICLES  
INTERACTIONS  
COSMOLOGY  
HIGGS  
ANTIMATTER  
QUARK-GLUON PLASMA  
NEUTRINOS  
--- EXPLORING THE UNKNOWN ---  
SUPERSYMMETRY  
DARK MATTER  
DARK ENERGY  
EXTRA DIMENSIONS  
--- TECHNOLOGIES and EXPERIMENTS ---  
ACCELERATORS  
DETECTORS  
COMPUTING  
DATA ANALYSIS  
--- PARTICLE PHYSICS AND SOCIETY ---  
WHY FUNDAMENTAL RESEARCH  
INTERNATIONAL COLLABORATION  
APPLICATIONS and SPIN-OFFS  
PEOPLE BEHIND THE SCIENCE (multiple selection allowed)

Audience:

School topic:

Nature of science  
Measurements and uncertainties  
Matter  
Charges and fundamental interactions  
Mechanics  
Special topics (multiple selection allowed)

School subtopic:

--- Nature of science ---  
Scientific inquiry and reasoning  
--- Measurements and uncertainties ---  
Sensors  
Measurements  
Measurement uncertainties  
--- Matter ---  
Structure of matter  
States of matter  
Phase transitions  
Mass  
--- Charges and fundamental interactions ---  
Charges  
Gravity  
Strong interaction  
Weak interaction  
Electromagnetism  
--- Mechanics ---  
Energy (conservation), work and power  
Accelerated motions  
Momentum (conservation)  
Oscillations and waves  
Relativistic mechanics  
--- Special topics ---  
Quantum physics  
Cosmology  
Medical imaging  
Objects in the universe  
Computing

(multiple selection allowed)

Online usage:

Related resource(s) (one link per line):

Rating (1 lowest, 10 highest/best):

Date of publishing:

Video URL link(s) (one link per line):

Choose a file:  
  No file chosen

Name:

Description:

# IPPOG Resource Database Challenges

---

## TECHNICAL

- Interface between CDS and Drupal

## CONTENT

- Curation of existing / “old” items
- Collection of new / up-to-date best items

## TIME

- RDB populated and published by November 2020

## CRITERIA

- ✓ Is the physics right?
- ✓ Is it a topic of interest?
- ✓ Is it related to particle physics or associated fields?
- ✓ Is it up-to-date or has it been superseded?
- ✓ Are you aware of a similar resource in the same language?
- ✓ Do you consider this resource as really outstanding?

# IPPOG RDB curation group

---

~ 40 members from around the world: - physics teachers, scientists and science communicators

Alberto Ruiz Jimeno  
Andreas Delannoy  
Ani Torres  
Anna Marie Wolf  
Carlos Cunha  
Cassandra McHugh-Lowther  
Cédric Vanden Driessche  
Claire Bonnoit-Chevalier  
Daniela Ambar Gayoso Miranda  
Dario Menasce

Despina Hatzifotiadou  
Enrique Arce-Larreta  
Harry Stuckey  
Ian Bearden  
Ivan Melo  
Jean-Christophe Pelhate  
Joel Klammer  
José María Díaz Fuentes  
Julia Woithe

Kevin Martz  
Kevin Mosedale  
Lucia Battistella  
Luís Afonso  
Maria Niland  
Marla Glover  
Michael R. Fetsko  
Michael Wadness  
Miki Otsuka  
Moritz Springer

Patricia Teles  
Pierluigi Paolucci  
Ram Krishna Sharma  
Richard Dower  
Robert Nickson  
Soleiman Rasouli  
Spencer Pasero  
Stefania Della Sciucca  
Yury Ivanov

❑ Creation in June 2020

- enlarged in April 2021

❑ New Curation tool developed – launched December 2020

❑ 366 resources: each evaluated by 2-3 experts => ~ 800 items to curate

❑ Status: 346 curated vs 400 planned as for today!

❑ Plan: finish by end of summer 2021!

# IPPOG Resource Database CURATION TOOL



Welcome, Barbara

STATISTICS

LOGOUT

## RDB Resources for curation As of 20/06/2020

366 entries

IPPOG RDB CURATORS

KEYWORDS EXAMPLES

TAGS OVERVIEW

HIDE / SHOW COLUMNS

EXPORT

	Search Title	Search Link	Search Old Topic	Search Old Type	Search Old Language	Search K	Search IPPOG	Search New Topic	Search Subtopic	Search New Type	Search Audience	Search New Lan	Search School Topic	Search School Subt	Search Online	Search Additional keywo	Search Related Res	Search Comment	Search Evaluator(s)	
+	1	Introducing the LHC L...	Accelerators	Article / Journal	English															
■	1a	Introducing the LHC L...	Accelerators	Article / Journal	English															Ram Krishna Sharma
□	1b	Introducing the LHC L...	Accelerators	Article / Journal	English															
+	2	Lets have a coffee wit...	Standard Model	Article / Journal	English															
■	2a	Lets have a coffee wit...	Standard Model	Article / Journal	English	YES	5	MATTER, PARTICLES...	PARTICLE					Structure of matter / ...	YES	Models		Online article		Robert Nickson
□	2b	Lets have a coffee wit...	Standard Model	Article / Journal	English															
+	3	3D-Printable Quadru...	Forces, Matter / Antl...	Cart Demonstration,...	English															
■	3a	3D-Printable Quadru...	Forces, Matter / Antl...	Cart Demonstration,...	English	YES	5	TECHNOLOGIES and...	ACCELE						YES	3D-Printable Scatter...	Required access to 3...			Robert Nickson
□	3b	3D-Printable Quadru...	Forces, Matter / Antl...	Cart Demonstration,...	English															
+	4	Particle Builder Board...	Particles, Standard M...	Game	English															
■	4a	Particle Builder Board...	Particles, Standard M...	Game	English	YES	10	MATTER, PARTICLES...	PARTICLE					Structure of matter	NO	Particles	Lets have a coffee wit...	Good resource to tra...		Robert Nickson

Subtopic ×

**CHARGES AND FUNDAMENTAL INTERACTIONS**

- Charges
- Gravity
- Strong interaction
- Weak interaction
- Electromagnetism

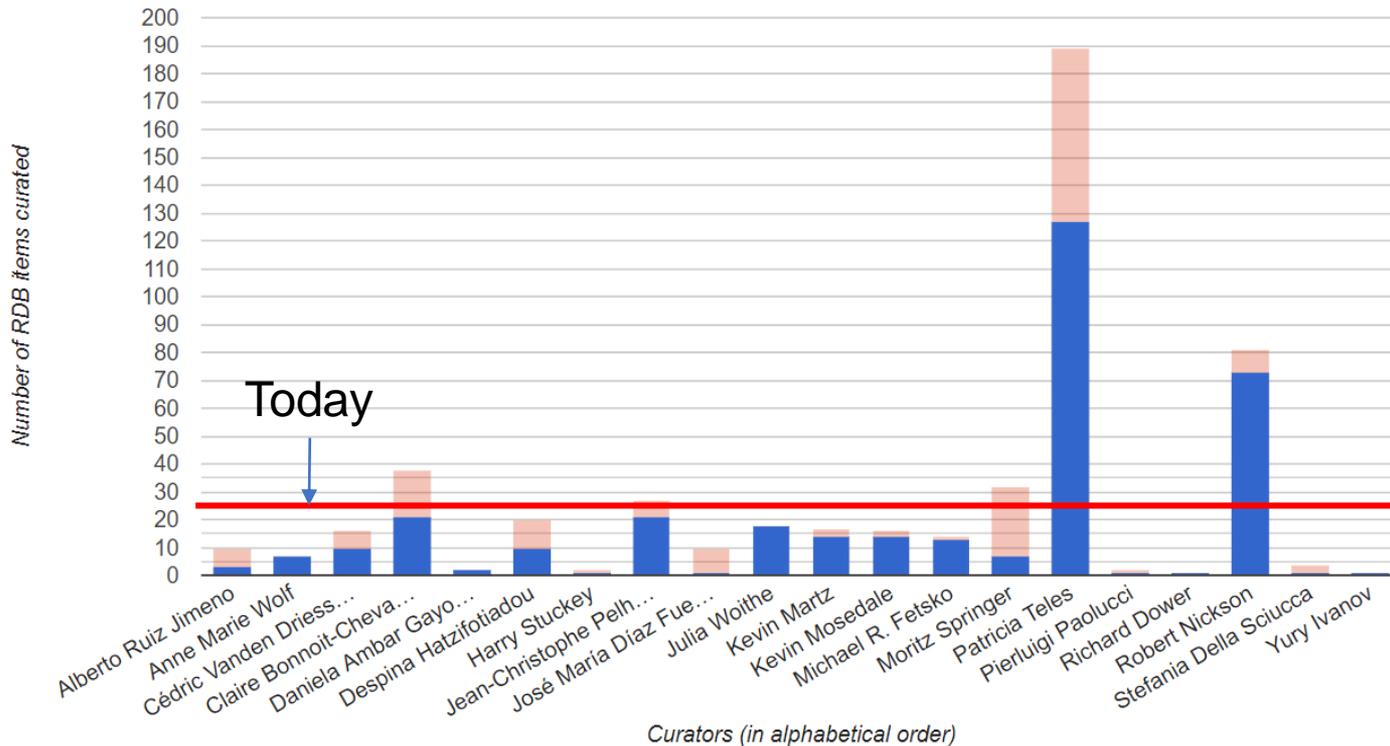
CLEAR
SAVE CHANGES



# IPPOG RDB curation statistics per user

## Total curated vs selected items

■ Total Selected Items: 507
 ■ Total Curated Items: 346



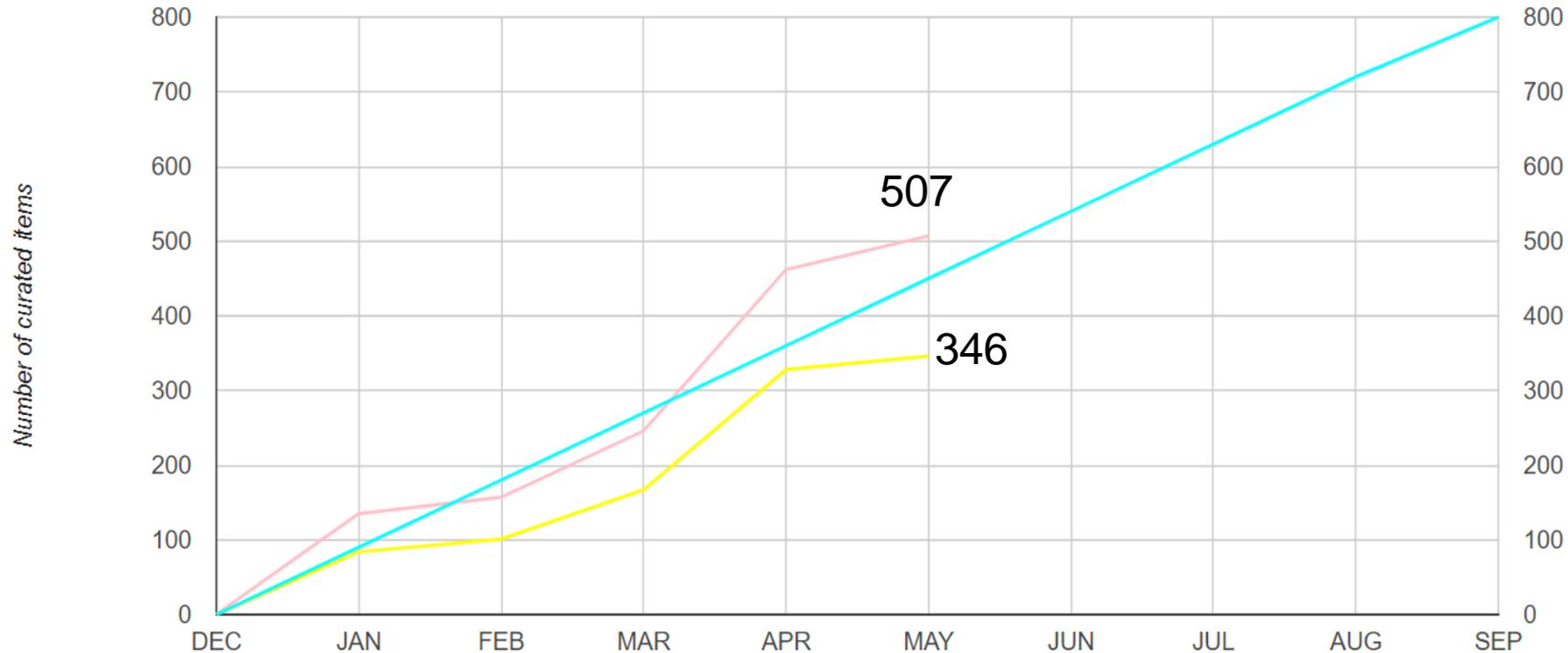
Only 20 people  
(> half of the group)  
contributed so far...

SEPT 2021  
 JUL 2021  
 APR 2021  
 JAN 2021

# IPPOG RDB curation time evolution

Cumulative for all curators

— committed / selected — curated — goal / plan



# IPPOG Resource Database Challenges

---

## TECHNICAL

- Interface between CDS and Drupal

## CONTENT

- Curation of existing / “old” items
- Collection of new / up-to-date best items

## TIME

- RDB populated and published by November 2020

# Collecting new resources for RDB

❑ Started in December 2020

❑ Simple [google doc](#)



❑ Regular reminders by email

✓ In December **3 pages**

✓ Today **25 pages**



**IPPOG Resource Database**  
**Proposed new resources / contributions**

While the new IPPOG website including new RDB is under development, from August 2020 the IPPOG Resource Database (RDB) website will become temporarily static - it will not be possible to submit new resources. Therefore, we will ask our contributors to wait and come back with their materials when the new IPPOG RDB is published (in 2021).

There exist many resources out there which fit to IPPOG RDB perfectly, but have not been uploaded. We aim for new RDB to become as comprehensive and representative collection of PP outreach and education resources as possible. Please, contribute below with the ideas of such materials.

New resource title	Link (if exists)	Author	Name of contributing / proposing person (your name with email hyperlinked)	More details (optional)
« The Higgs Discovery Explained »	<a href="https://youtu.be/g2cp0d3u0e">https://youtu.be/g2cp0d3u0e</a>	Piotr Traczyk	<a href="#">Barbara Brunt Gustava</a>	
Discover CERN online	<a href="#">discover.CERN online</a>	CERN Francois Briard	<a href="#">Barbara Brunt Gustava</a>	2 episodes already published, a third one should come
<a href="#">Virtual Conferences about CERN</a>	<a href="https://home.cern/news/news/cern-virtual-lectures-sc-tools">https://home.cern/news/news/cern-virtual-lectures-sc-tools</a>	CERN Francois Briard	<a href="#">Barbara Brunt Gustava</a>	Used during COVID period, link doesn't work anymore... but nice resource...
International HST programme - lectures	<a href="https://teacher-practitioner.web.cern.ch/information-at-high-school-for-cern-programme">https://teacher-practitioner.web.cern.ch/information-at-high-school-for-cern-programme</a>	Jeff Wiener et al.	<a href="#">Barbara Brunt Gustava</a>	Used during COVID period...

# Creation of new RDB WG

## WE NEED TO:

- Complete
- Wrap up
- Evaluate
- Assign new tags
  - with help of **dedicated curation tool**

## “RDB specifications” doc

- Article from BBG: [“IPPOG – Bridging the gap between science education at school and modern scientific research”](#)

**New dedicated WG needed!**

## RDB Working Group

Open to join!

RUIZ JIMENO, Alberto  
SHARMAZANASHVILI, Alexander  
STRANDBERG, Jonas  
WOZNIAK, Krzysztof Wieslaw  
WETZLER, Susan  
WEGNER, Jeremy  
KLAMMER, Joel  
GLOVER, Marla  
COYLE, Helen  
PAOLUCCI, Pierluigi

Thanks Ken  
& Spencer

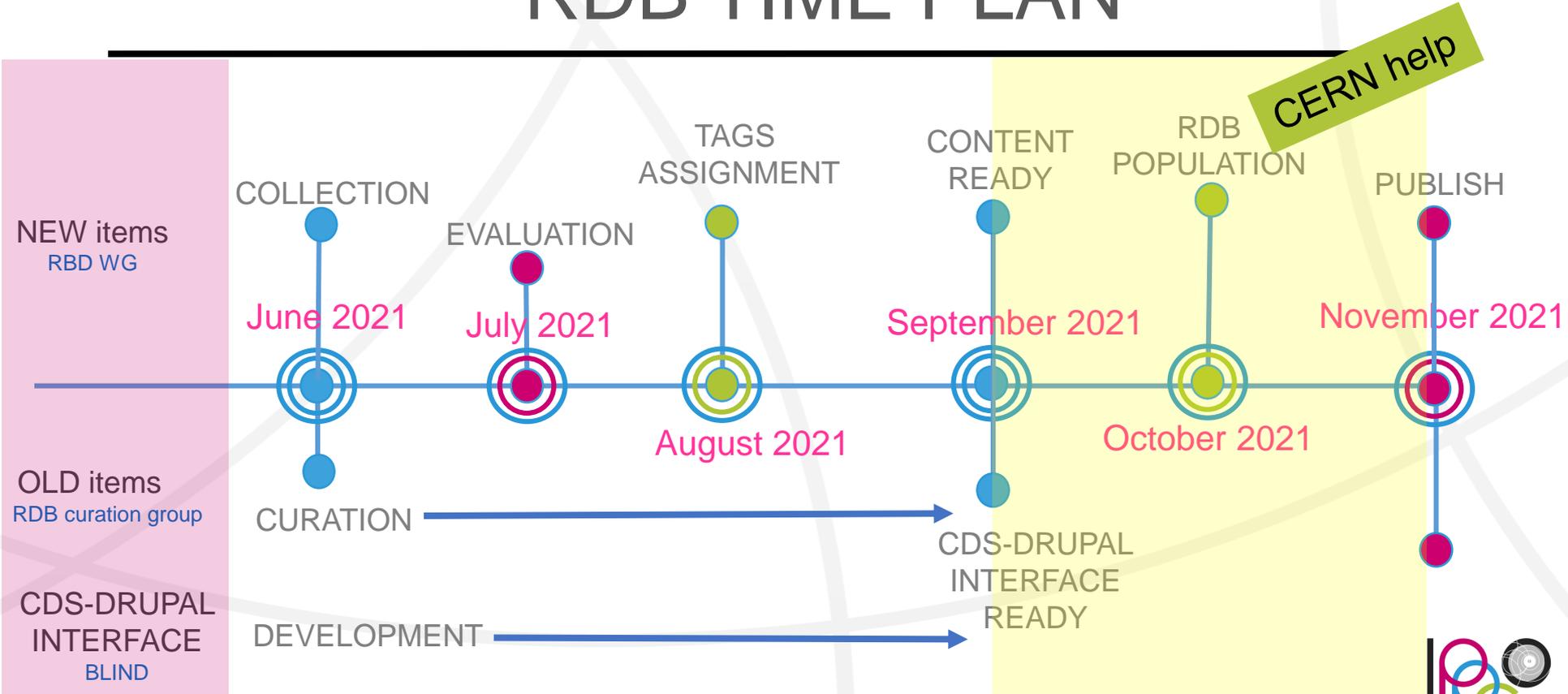
KIRILOVA, Galina  
KLEIN BOESING, Christian  
BEARDEN, Ian Gardner  
GAMEIRO MUNHOZ, Marcelo  
GORISEK, Andrej  
HADJIISKA, Roumyana Mileva  
HATZIFOTIADOU, Despina  
MELO, Ivan  
PRICE, Darren  
BARDEEN, Marge

6 members also in  
RDB curation group



Later we will need RDB standing committee

# RDB TIME PLAN



# DISCUSSION

---

- Feedback on website
- Feedback on RDB
- What do we want to have in RDB? Few best? Everything?
- How many new items do we aim to have when launched?
- Criteria?
- ???