

**HST 2017
WG7
IPPOG**

HST

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International Particle
Physics Outreach Group



International Particle Physics Outreach Group

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The International Particle Physics Outreach Group (IPPOG)

IPPOG is a network of scientists, science educators and communication specialists working across the globe in informal science education and outreach for particle physics. Particle physics is the science of matter, energy, space and time. IPPOG brings new discoveries in this exciting field to young people and conveys to the public that the beauty of nature is indeed becoming understandable from the interactions of its most fundamental parts - the elementary particles.

Current members come from the 22 member states of CERN, Australia, Ireland, Slovenia, South Africa, the USA, and from DESY, CERN and five of the major experiments at the Large Hadron Collider (LHC).

Hans Peter Beck (University of Bern) and Steve Goldfarb (University of Melbourne), IPPOG Chairs

Physics Slam

To increase enthusiasm and basic understanding of physics among a general audience

Science Shows & Performances



Latest Resources



A Big Bang In The...

To introduce main research subjects at LHC to secondary school pupils in their last year of studies 0 comments



Das Verflixte Higgs...

Article published originally in the German journal 'Astronomie & Raumfahrt' 51 (2014) 6... 0 comments



Quiz for IMC17

This multiple-choice quiz is designed for high school students and will be used in the... 2 comments



Resources

Activities

Programs & Events

Media

Professional
Development &
Coaching

Exhibits

Souvenir / Novelty Item

FAQs

Welcome !

What is this?

Who is this for?

How to upload

Learning Topics



- ▶ Physics
- ▶ Technology
- ▶ International Collaboration
- ▶ Broader Impacts

LATEST

FEATURED

Some ethical questions in particle physics

Hans Peter Beck¹, Ivan Melo², Thomas Naumann³

Search by

Learning Topic

- Any -

Audience

- Any -

Item Type

- Any -

Availability

- Any -

Duration

- Any -

Language

- Any -

Key Words

Examine and Evaluate the Database Interface

- Is this something useful for you?
- How could it be made more useful for you?
- Do you agree with the proposed categories?
- When and how often would you use it?

Review the Content

- Is there useful content?
- What do you want more of?
- How can the existing content be improved?
- Rate content according to a scale:
 - 0 = archive it
 - 5 = keep it no matter what
- Tag and propose improvements:
 - categories (topic, subtopic, item, audiences)
 - level of difficulty (standalone / needs guidance)
 - language

Rich text editor toolbar with icons for bold, italic, text color, background color, link, unlink, bulleted list, numbered list, indent, outdent, undo, redo, and other editing tools.

particles, quarks, bosons interactions

	A	B	C	D	E	F	G	H
1	Item	Topic	Subtopic	Item Types	Audiences	Rating (1-5)	Keywords	Comments
65	CERN lesson plan, Background material, units					5		as above
66	Cloud chamber diy manual	Technologies and Experim	Detectors	classroom materials	educators, upper seconda	5	detectors, cosmic rays, particles	
67	Solving the enigma of the universe	Matter, particles and unive	particles and interactions, α	presentation	broad public, educators, u	4	particles, cosmology, quarks, energy	
68	A question of survival							repeat link, different title, se
69	International cosmic day 2015							poster for this event, out of
70	Alice, a voyage inside the core of n	Technologies and experim	Detectors	video	broad public	3	detectors, alice, quark gluon plasma	
71	ALICE videos for open days 2013	Technologies and experim	Detectors	video	broad public	3		badly named file, sounds d
72	A new particle is discovered, a Hig	Matter, particles and unive	Higgs Boson	video	broad public, educators	4	higgs, boson	change name to The Disco
73	The Higgs Boson	Matter, particles and unive	Higgs Boson	poster	educators	5	higgs, boson	
74	A salad bowl accelerator	Technologies and experim	Accelerators	project	educators	5	accelerator model	
75	Build a cloud chamber							web version of line 66
76	The basics of the Higgs boson	Matter, particles and unive	particles and interactions	lesson plan	educators			needs log in
77	A la rencontre des acceleratures des particules							cannot comment, in french
78	Beamline for schools competition							2013, out of date, remove
79	Le mysteries des rayon cosmique							in french, cannot comment
80	CMS HEP tutorial	Particle physics and societ	why fundamental research	simulation	educators, upper seconda	5	data analysis, boson, discovery	
81	Quark poker							in french, cannot comment
82	Particle masses, what if they had been different							Dual language, english link



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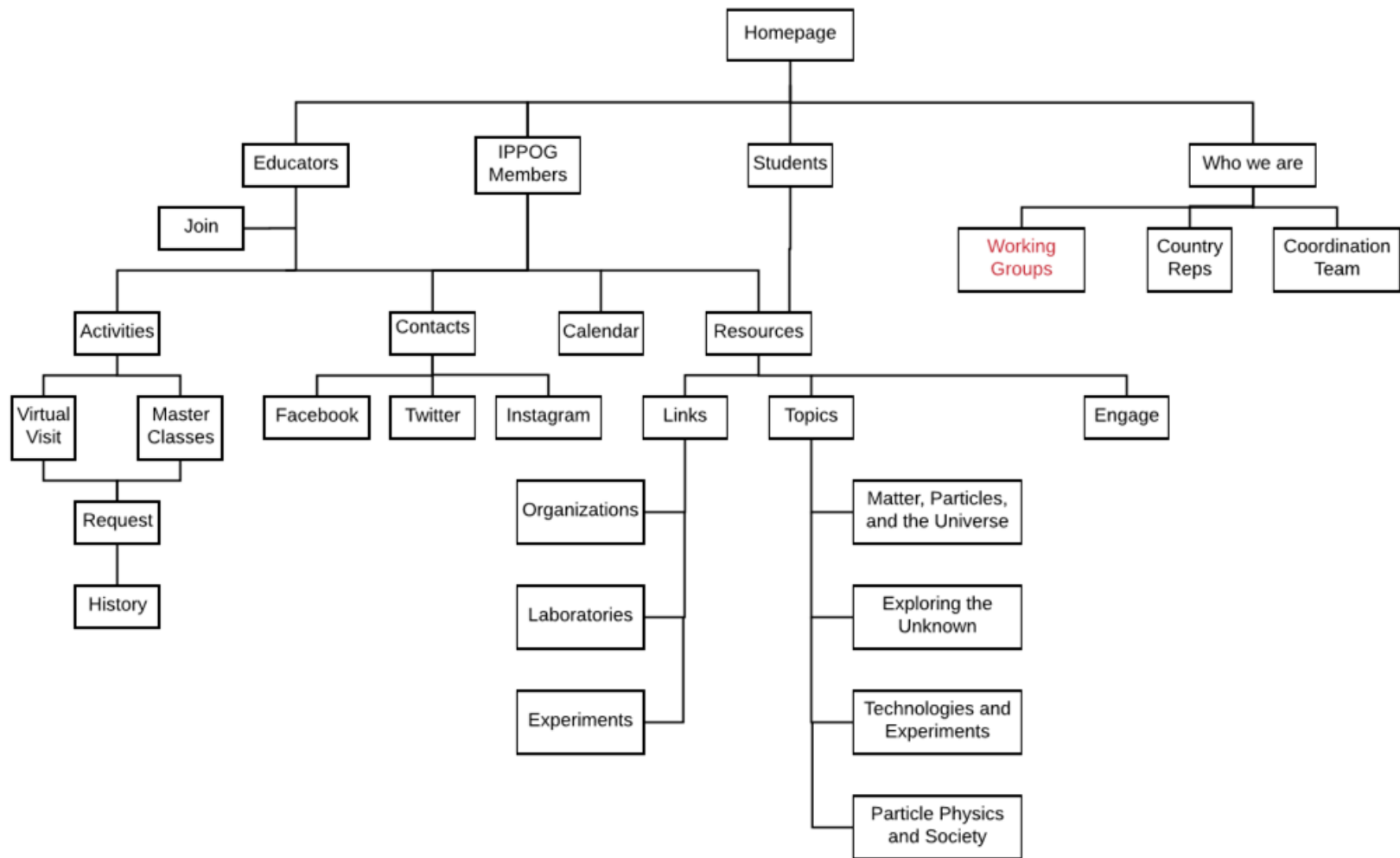
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Samples of Our work or Ideas

- ATLAS control room on 2017-07-17 (we visited and took part)

[Brief view](#)

- Association of physics teachers as friends of IPPOG

[UIPTS Website](#)

- Preparing email list of physics teachers from all over the world.



Future Direction

- Complete Database review for other languages
- Translate previously identified resources for translation into other languages
- Generate links with territory physics teacher networks
 - Many thanks to HST contributors for this
- Take forward the design of the new website
 - Budget approved
 - Add WG7 work to a specification document
 - Select an external designer
 - Develop design and graphic elements with designer
 - Implement web pages
- Friends of IPPOG