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Astroparticle Physics for Europe

## **Report of the General Secretary (and Joint Secretariat)**

Job de Kleuver et al.

General Assembly Meeting – 9 December 2020

## General Assembly composition

- CEA, France: new Nathalie Besson
- NWO-I, NL (2021): Michiel van den Hout -> Job de Kleuver
- VR Sweden: Lars Bergström retired -> ???
- ASTRONET Colin Vincent (observer)
- ECFA (2021): Jörgen d'Hondt -> Karl Jakobs (observer)
- CERN (2021): Eckhard Elsen -> Joachim Mnich (observer)

## Activities since last GA meeting (Job)

- JS meetings in September and November 2020
- SAC meetings in September and November 2020
- Onbb meeting in November 2020
- Sustainable APPEC discussions in several settings
- Preparations of this GA meeting
- Support to Election committee and the candidates
- EuCAPT (proposal update statutes and a code of conduct will come in spring 2021)

## Proposal new APPEC Governance Working group (Job)

APP projects become bigger and more complex and we see more involvement of Ministries and higher political levels. We see problems and delays in creating new Research Infrastructures as a consequence (e.g. governance development, involvement Ministries, funding models, legal issues, etc.). We also see a strong need to learn from the (recent) past and provide new initiatives support in setting up new structures.

### Proposal:

- To establish an APPEC Governance Working Group to address this topic
- To develop a mandate for the WG and a proposal for its composition (experienced policy makers) for approval in the APPEC-GA in June 2021
- To prepare a first 'lessons learned event' in 2021
- Job de Kleuver will coordinate, supported by Christian Stegmann



## **APPEC Technology Forum 2021 – Ivan Stekl**

### **Scientific Committee:**

[Beniamino Di Girolamo](#) (chair, CERN), [Teresa Montaruli](#) (APPEC), [Hanna Franberg](#) (NuPECC/GANIL), [Corrado Gargiulo](#) (ECFA), [Václav Hlaváč](#) (CIIRC, CTU in Prague),  
[Jiří Hůlka](#) (NRPI), [Ivan Štekl](#) (IEAP, CTU in Prague), [Enrico Chesta](#) (CERN, Knowledge Transfer Group)

### **Organizing Committee:**

[Ivan Štekl](#) (IEAP, CTU in Prague), [Maroš Petro](#) (IEAP, CTU in Prague), [Aneta Chaloupková](#) (IEAP, CTU in Prague), [Martina Vanišová](#) (IEAP, CTU in Prague), [Daniel Seifert](#) (CIIRC, CTU in Prague), [Ivan Hupka](#) (NRPI)

### **Topics:**

Experiments in high-energy physics using colliding beams

Space missions (including robotics) or satellites orbiting our planet

radiation therapy

robotics in medical application (including also Covid-19 era),

nuclear power reactors (including severe accident monitoring).

Additional proposals: neutrino telescopes, robotics underwater, gravitational wave interferometers



**Indico page:**

<https://indico.utef.cvut.cz/indico/event/20/overview>

Invitation letter and First circular are prepared

**New conference center IAPE CTU:**

Fully equipped for conferences (50-60 people), including videoconference, smaller rooms for separate meetings....





## **Proposed program:**

A) DAY 1, Morning session – Robotics in physics experiments

Robotics in LHC and other facilities

Robotics in LHC experiments

Robotics for Gravitational Waves experiments

B) DAY 1, Afternoon session – Robotics in physics experiments and space

Robotics in deep sea experiments

Robotics in volcano and other harsh places

Robotics in the space

Augmented reality for guided interventions to minimise access time in harsh environment

C) DAY 2, Morning session – Robotics in life science

Robotics in surgical operations

Robotics in COVID era

Robotics in nuclear therapy

General discussion on common bases for all the approaches seen: physics medicine, biology, etc.

D) DAY 2, Afternoon session – Robotics: industry and universities

4 talks from companies/universities/research i.e. real applications available

Example: companies working with CERN for accelerators applications; Companies from the Netherlands, Delfts Robotics; Scuola S. Anna Technological campus in Pisa

## **Final remarks, questions, tasks:**

- 1) Decision of the date: June 2021 – difficult to guarantee „real“ workshop, maybe postpone to September 2021?
- 2) Invitation letter and First circular must be modified
- 3) Indico web page must be modified and opened for registration
- 4) List of people – possible participants of the ATF
- 5) Poster session ???
- 6) Student session (the possibility for selected students to present their activities in ATF subjects) ???



## Communication and Outreach - Katrin Link

- Website – [www.appec.org](http://www.appec.org)
- New calendar
- Newsletters 4+1 in 2020
- 5 Interviews, 2 on Eol
- Twitter @astroparticle



Gravitational Wave detection GW190521 – an unexpected discovery

7TH OCTOBER 2020

Interview about the Gravitational Wave GW190521, detected by Virgo and LIGO, with Giovanni Losurdo On 2 September the Virgo and...

[Read More](#)



ET – the future of Gravitational Wave observation in Europe

18TH SEPTEMBER 2020

Interview on the status of the Einstein Telescope with Michele Punturo and Frank Linde. During the last year the Einstein...

[Read More](#)

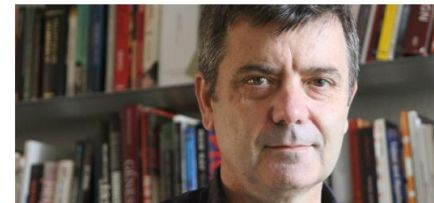


Gravitational Wave Probes of Fundamental Physics – a cross-cutting initiative

17TH JULY 2020

Interview on Gravitational Waves Expression of Interest with Tetyana Galatyuk and Paolo Pani in response to the JENAS call the...

[Read More](#)



T2K results constrain possible values of the leptonic CP-violating phase

13TH MAY 2020

Interview with Federico Sanchez about the recent results of T2K collaboration Recently the T2K experiment published in Nature their results...

[Read More](#)



iDMEu – an Eol gathering the dark matter community

13TH FEBRUARY 2020

Interview with Marco Cirelli, Caterina Doglioni, Gaia Lanfranchi and Florian Reindl In October 2019 the first Joint ECFA – NuPECC...

[Read More](#)

## Communication and Outreach (2)

- Cooperation IPPOG & EPPCN
  - Participation IPPOG & EPPCN meeting
  - Main topic: EPPSU
  - EPPCN working groups
    - Benefits to society
    - Physics case
    - Minimising environmental impact

IPPOG – International Particle Physics Outreach Group

EPPCN – European Particle Physics Communication Network

Deliberation document on the 2020 Update of the European Strategy for Particle Physics:

*“The International Particle Physics Outreach Group (IPPOG) has been established as a structural collaboration between countries to streamline particle physics education at the high-school level and its role could be further augmented to that of providing public engagement material. The European Particle Physics Communication Network (EPPCN) has proven to be an effective network for the professional communication of particle physics.*

...

***IPPOG and the EPPCN have excellent opportunities for synergy with APPEC.”***



## Common fund 2019/2020 status (Katharina/Job)

The call for funds for 2019 was sent to participating institutes end of September 2019. A few members will pay for 2019/2020 in 2020.

The invoices for the common fund contributions 2020 will be sent this week to the APPEC members.

## Meeting and Budget plan 2020 (Job)

Meeting	Location	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Cost / €
APPEC JS-meeting	Zoom			X										-
APPEC JS-meeting	Zoom					X								-
APPEC SAC-meeting	Zoom					X								-
APPEC GA-meeting	Zoom						X							-
ERICE International School of Cosmic Ray Astrophysics	ERICE													3.000,00
APPEC JS meeting	Zoom									X				-
APPEC SAC-workingmeeting	Zoom									X				-
APPEC Ovbb meeting	Zoom											X		-
APPEC SAC-meeting	Zoom											X		-
APPEC JS meeting	Zoom											X		-
APPEC GA-meeting	Rome/Zoom												X	-
														3.000,00

### Budget 2020

Meetings	3.000,00
EuCAPT	10.000,00
JENAS EoI's	10.000,00
Communication	20.000,00
Costs Webserver	1.300,00
<b>Total</b>	<b>44.300,00</b>

Due to Corona pandemic almost all meetings are remote or postponed

## Meeting and Budget plan 2021 (Job)

Meeting	Location	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Cost / €
APPEC JS-meeting	Zoom		X											-
APPEC DMDD meeting	Zoom		X											
APPEC SAC-meeting	Zoom		X											
APPEC JS-meeting	Zoom													-
APPEC SAC-meeting	Zoom			X										-
APPEC GA-meeting (short)	Zoom			X										-
APPEC JS meeting	Zoom				X									-
APPEC SAC-meeting	Zoom					X								-
APPEC GA-meeting	Zoom						X							-
APPEC JS-meeting	?									X				500,00
APPEC SAC-meeting	?										X			500,00
APPEC JS meeting	?											X		500,00
APPEC GA-meeting	Rome												X	1.000,00
														2.500,00

### Budget 2021

Meetings	2.500,00
EuCAPT	10.000,00
Town Meeting 22	p.m.
Communication	p.m.
Costs Webserver	1.300,00
<b>Total</b>	<b>13.800,00</b>

Due to Corona pandemic many meetings will be remote

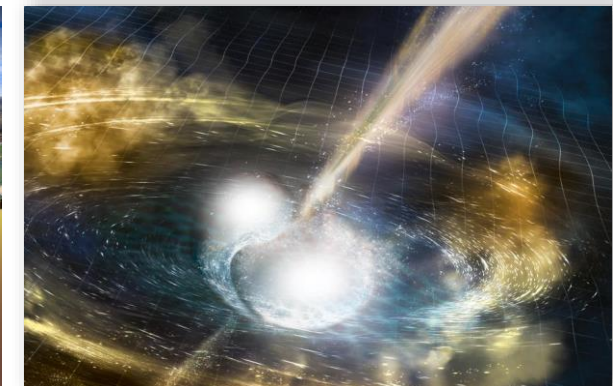
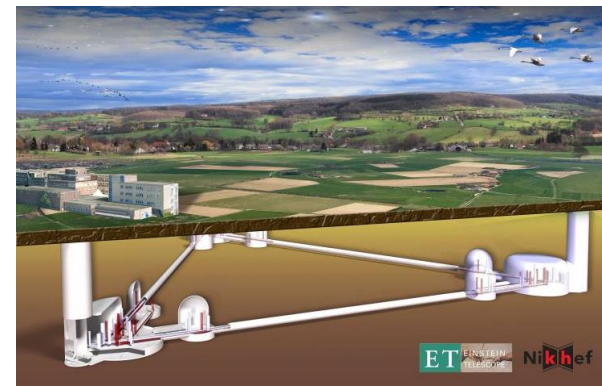




# Astroparticle Physics European Consortium

## Some sweet memories in shitty 2020 (Job)

- Roadmap launched
- Renewed SAC
- EuCAPT established
- APP in EU PP Strategy
- Survey and common view 0vbb
- Survey Dark Matter DD
- Steps towards a sustainable APPEC
- Plan for regular APPEC Town Meetings
- First steps for international coordination
- Gravitational Waves developments

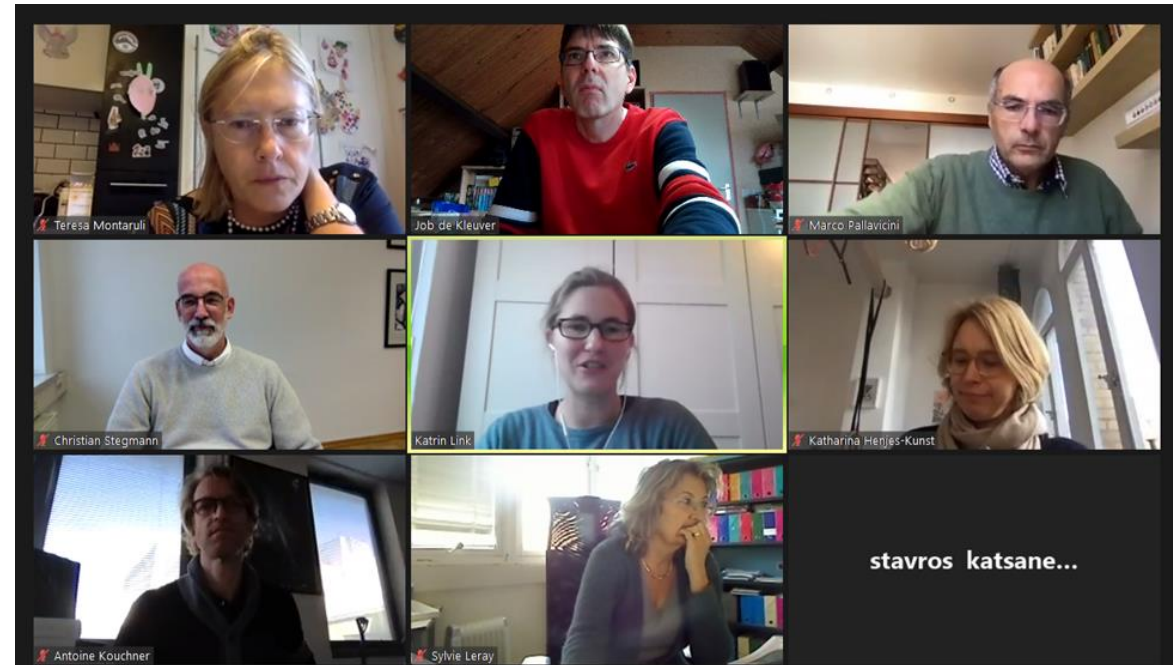






# Astroparticle Physics European Consortium

Thank you for confidence and collaboration!



- General Assembly
- Joint Secretariat
- NWO-I







# Astroparticle Physics European Consortium

Thank you Antonio and Teresa!














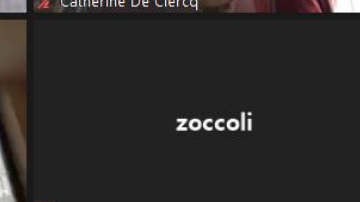


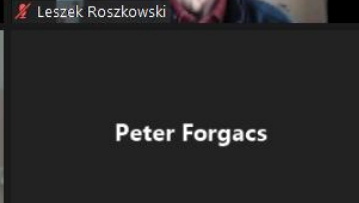




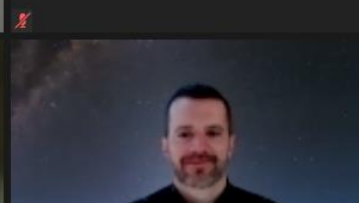









# Astroparticle Physics European Consortium

## Thank you all!

 Katharina Henjes-Kunst	 Sijbrand de Jong	 Andreas Haungs	 Katri Huitu	 Stan Bentvelsen
 Marek Lewitowicz	 Michiel van den Hout	 Katrin Link	 Catherine De Clercq	 Marco Pallavicini
 Sylvie Leray	 Leszek Roszkowski	 Antoine Kouchner	 zoccoli	 Ulrich Katz
 Vincent, Colin (STFC,SO,PROG)	 Peter Forgacs	 Xin Wu	 Nathalie Besson	 Christian Stegmann
 abueno	 Andrew Williams	 Job2	 Grahame Blair (STFC-UKRI)	 stavros katsanevas