KAT

Video meeting via zoom, 21 October 2021, 11:30-13:54 CEST

Present:
Kerstin Borras (KB, DPG), Karsten Danzmann (KD), Roland Diehl (RD),
Ralph Engel (RE, KIT, 11:38-), Martin Erdmann (ME), Stefan Funk (SF, -13:29),
Andreas Haungs (AH, vice-chair), Uli Katz (UK, chair), Manfred Lindner (ML),
Alina Nasr-Esfahani (AN, yHEP), Wilfried Nörtershäuser (WN, KHuK),
Federica Petricca (FP), Martin Pohl (MP, -13:45), Stefan Schönert (SS, 11:35-13:42),
Thomas Schwetz-Mangold (TS), Achim Stahl (AS, 12:48-),
Christian Stegmann (CS, DESY), Kathrin Valerius (KV), Jörn Wilms (JW, RDS),
Michael Wurm (MW, 11:36-12:59)

Absent:
All others.

Invitation and agenda:
By email.

Indico page:
https://indico.scc.kit.edu/event/2525/

Summary	Action
1. Welcome, agenda, minutes The agenda as announced on the Indico page is approved The minutes of the previous meeting on 4 June 2021 will be sent in their final form for endorsement.	n/a
2. KAT/RDS meeting with BMBF/711 (19 August 2021) The meeting, held via Zoom, brought together BMBF/711 (E. Lilienthal, T. Lebe), RDS/KAT (Michael Kramer [MK], Stefanie Walch [SW], UK, AH, JW) and PT.DESY. It concentrated on ways of quantifying and emphasising the socio-economic impact of our science fields, on future projects, and on DZA. It started by a couple of slides presented by MK and developed to an open, constructive informal discussion. The KAT/RDS participants will discuss and suggest concrete follow-up actions.	MK, SW, UK, AH, JW: Discuss and suggest follow-up actions.
3. KAT strategy meeting (December 2021) The Physikzentrum in Bad Honnef is reserved for the KAT strategy meeting at 2+3 December 2021 (Thursday and Friday). During the KAT meeting, unanimous consensus was: • The strategy meeting will be organised as a hybrid meeting; • There will be a closed KAT meeting on Thursday afternoon; • The agenda will focus on strategic issues on Thursday (future projects, DZA, the upcoming BMBF strategy process for ErUM-Pro, the APPEC Town Meeting in Berlin, the APPEC mid-term review) and on reports and physics highlight talks on Friday; • KAT will be asked to suggest topics and speakers: • The invitation of E. Lilienthal (BMBF/711) will be reiterated.	UK, AH: Set up agenda

Notes added: On 23 November it was decided that, due to the COVID situation, the meeting will be online only and the reservation in Bad Honnef has been cancelled. Like in 2020, the astroparticle community has been invited to participate.	
4. ErUM-Data and DIG-UM ME reports (see slides on Indico). BMBF has meanwhile committed to finance the ErUM-Data Hub. The DIG-UM Guidelines have been finalised for endorsement by the participating committees. KAT endorses the Guidelines unanimously. Next steps: Meeting of the DIG-UM Boards at 20 November 2021, kick-off meeting 20 January 2022.	All: suggest personnel for Hub
5. NFDI (PUNCH4NFDI) AH reports on recent developments (see slides on Indico). The favourable decision on the proposal has been announced at 21 July by GWK, funding starts at 21 October (the day of the KAT meeting). The project receives 16.6 M€ (30% reduction w.r.t. proposal) and will run for 5 years; a second 5-year phase could follow, subject to a positive evaluation after 3 years. Spending profile and distribution of funding need to be adapted to the cash flow. The kick-off meeting was held on 15 October. In the PUNCH4NFDI User Board with two members per Committee, KAT is represented by Anna Franckowiak and UK,	n/a
6. 0vbb summit (LNGS, 29 September – 1 October 2021) AH, SS and ML report (see slides by AH and SS on Indico). The meeting, co-organised by INFN, APPEC and DOE, followed the portfolio review in the US earlier in 2021 (which resulted in a ranking of the proposed experiments) and brought together stakeholders and decision makers from Europe and the US. Germany was represented by Jacek Swiebodzinski from PT.DESY. In a statement emerging from a closed session of the funding agency representatives, the high recognition of neutrinoless double beta decay searches was acknowledged; priority was given to a scenario with two ton-scale experiments, one in Europe and one in North America; and the exploration of a more formal structure for long-term international cooperation was suggested. SS reported that the result of the portfolio review was publicly announced; the ranking is (1) LEGEND and (2) nEXO, while CUPID was not considered a ton-scale experiment. It is now important to align the European funding strategy. There may be a window of opportunity of about one year to agree on a common strategy between DOE and Europe. ML pointed out that the current process ignores activities in Asia (China, Japan), which may add to the complexity of the situation.	n/a
7. APPEC AH reports news from APPEC (see slides on Indico): • A draft of the midterm review of the European Astroparticle strategy 2017-2026 is available and feedback is requested until	n/a

end of January 2022. The review will serve as an important input to the Town Meeting in Berlin (see below). • An APPEC Town meeting is scheduled on 9+10 June 2021 in Berlin, in a setting fostering communication and discussion. • EuCAPT (European Center for Astroparticle Physics Theory) has distributed a White Paper. • The IUPAP Neutrino Panel has disseminated a White Paper and asked for feedback. The final version is available here. • A new JENAA (Joint ECFA-NuPECC-APPEC Activities) initiative on Physics of Electron-Ion Colliders has been suggested, with interest on the astroparticle side from Teresa Montaruli and Ralf Ulrich. • The 2nd JENA Symposium is planned for 3-6 May 2022 in Madrid, featuring a session with Funding Agencies invited. • The Snowmass process has been restarted, the timeline was presented.	
8. ET and DZA AS reports on current ET activities: An MoU-based consortium of 41 institutions has been formed, coordinated by Nikhef and INFN. The collaboration is still informal and steps are being taken to formalise it. Topic-specific boards have been created with divisions and working groups as sub-structure. Activities towards establishing ET on the German Research Infrastructure Roadmap are under way. CS reports on DZA (see slides on Indico). After DZA has successfully passed the first selection round, the concept needs to be worked out. It will be a common initiative of astrophysics and astronomy, targeting future computing, instrument development and a future large-scale facility. Science drivers will be SKA and ET. CS presented the competitors, current PR activities in the region, as well as the organisation for the concept phase. Input from KAT is needed for the Scientific Advisory Board (SAB). In addition to AS, RE and SF were suggested as participants in an upcoming meeting on 9 November and prospective members of the SAB.	n/a
9. Nuclear Astrophysics RD presents news from the field, including a malfunction of the INTEGRAL satellite (recovered), new laboratories and the current status in Germany. He shows the new brochure *Nuclear astrophysics: Cosmic origins*, addressing the broader scientific network connected to nuclear astrophysics. The brochure and the slides are available on the Indico page.	n/a
10. DPG spring meeting KB and RE report. The DPG spring meeting will be held 21-25 March 2022 in Heidelberg as a pure face-to-face meeting (i.e. no hybrid option). The program is not yet set up and suggestions of topics and speakers for astroparticle talks are welcome.	RE, AH, UK: Collect suggestions and feed them into the process.
11. AOB None.	

18 December 2021

Andreas Haungs and Uli Katz