

KAT**Video meeting via zoom, 16 July 2020, 16:00-17:25 CEST****Present:**

Roland Diehl (RD), Ralph Engel (RE), Camilla Hansen (CH), Andreas Haungs (AH), Thomas Hebbeker (TH, DPG&KET), Marc Hempel (MH, PT-DESY), Uli Katz (UK, chair), Manfred Lindner (ML), Harald Lück (HL), Federica Petricca (FP), Anna Pollmann (AP, yHEP), Michael Schimp (MS, yHEP), Stefan Schönert (SS), Thomas Schwetz-Mangold (TSM), Achim Stahl (AS), Christian Stegmann (CS, DESY), Kathrin Valerius (KV), Michael Wurm (MW).

Absent:

All others.

Invitation and agenda:

By email.

Indico page:

<https://indico.scc.kit.edu/event/887/>

Summary	Action
<p>1. Welcome, agenda, minutes of last meeting The minutes of the zoom meeting on 9 June 2020 were approved.</p>	n/a
<p>2. NFDI AH presented an update of the status. The merger of PAHN-PaN and Astro@NFDI has been decided and is dubbed PUNCH4NFDI (Particles, Universe, NuClei and Hadrons for the NFDI). The time line towards the proposal is very tight and it is unclear how astroparticle physics will be represented. The KAT felt that it will be important that PUNCH4NFDI will address central astroparticle topics.</p>	n/a
<p>3. KAT digital working group (DWG) UK presented a list of names that had been suggested as DWG members. It was felt that it is unclear whether the nominees appropriately represent the different fields of competence required for DWG. Additional nominations were encouraged and a list of competences of the nominees requested. A decision was postponed to the next meeting.</p>	AH, UK: Produce list of competences
<p>4. Bilateral cooperation BMBF-JINR AH reported on a meeting at 24 June 2020 of AH, UK and SS with Dmitry Naumov from JINR/Dubna on the BMBF-JINR project initiative (see KAT minutes from 1 Apr 2020). All participants confirmed a large interest to include astroparticle physics in the list of topics. A common understanding of the science fields included in astroparticle physics was reached. All approved the understanding that that the main measure of the future cooperation will be the exchange of early-career scientists. Projects that were expected to be included in corresponding</p>	n/a

<p>activities: KATRIN; JUNO; GERDA/LEGEND; Neutrino astronomy via the Global Neutrino Network (GVD, IceCube); TAIGA; Borexino; OMC4DBD (approved at PSI, CH under JINR leadership); future projects with large cooperation potential: P2O (Protvino-ORCA neutrino beam), Gravitational Wave Experiments (Einstein-Telescope), Nu-Gen (reactor neutrino-scattering at Kalinin power plant).</p> <p>AH reports that after this meeting the Russian side expressed interest in obtaining investment money through the BMBF-JINR cooperation.</p>	
<p>5. Bilateral BMBF-Italian discussions on LNGS</p> <p>MP reported on the latest developments. At 26 June 2020 the list of suggested projects was discussed in a video conference with participation from BMBF, PT-DESY, KAT, INFN and LNGS. One project (ion-coupled plasma mass spectrometry, ICPMS) was excluded since already funded from different sources. The other projects were confirmed to be interesting.</p> <p>It was decided to form one Italian-German expert pair (or small team) per remaining project to assess quality, implementation, time lines, cost and long-term maintenance. German experts have been identified and their names communicated to PT-DESY and INFN.</p>	n/a
<p>6. US downselect of future $0\nu\beta\beta$ Experiments</p> <p>At 7 July 2020, this topic was discussed in a phone call between MH, Jacek Swiebodzinski, SS and UK. Next steps are to inform BMBF and understand their position.</p> <p>It was reported that in the APPEC General Assembly statements have been made that summer 2020 is too early for starting a European coordination process for $0\nu\beta\beta$.</p> <p>A possible European $0\nu\beta\beta$ town meeting in fall/winter 2020 was mentioned as an option to proceed.</p> <p>Note added: On 3 Nov 2020 a meeting including representatives of the European funding agencies, $0\nu\beta\beta$ experts and the APPEC General Assembly will be held.</p>	n/a
<p>7. APPEC and EPPSU</p> <p>CS reported the outcome of the European Particle Physics Strategy Update (EPPSU) process, with particular focus on the role of astroparticle physics. He emphasised the opportunities offered by the strong statements on synergies between particle and astroparticle physics, as reported by Halina Abramowicz to the CERN Council at 18 June 2020.</p>	
<p>8. Preparation of online community meeting</p> <p>KAT unanimously supported the plan to hold a one- or maximally two-day online meeting in fall, open to the full astroparticle community and providing an opportunity for an (online) get-together. It was emphasised that scientific highlights are to be presented, rather than status reports from the topical constituencies of KAT. Care has to be taken to make this event attractive for younger participants. It</p>	UK, AH: organise meeting

<p>was suggested to consider inviting the head of BMBF division 711, Eckart Lilienthal, for a presentation.</p> <p>Date and agenda of this meeting needs to be fixed soon, but it was felt that this will not be possible during the summer vacation time.</p>	
<p>9. KAT strategy meeting, Dec. 2020 It was considered to be too early to take a decision on the format of this meeting (face-2-face, online, hybrid). Decisions were postponed to the first KAT meeting after the summer break.</p>	n/a

24 October 2020

Andreas Haungs and Uli Katz