

KAT**DFN audio call, 16 July 2019, 14:00-16:00 CEST****Present:**

Ralph Engel (RE, KIT), Stefan Funk (SF), Andreas Haungs (AH, deputy chair), Thomas Hebbeker (TH, DPG and KET), Marc Hempel (MH, PT-DESY), Uli Katz (UK, chair), Manfred Lindner (ML), Francesca Moglia (FM, APPEC), Federica Petricca (FP), Anna Pollmann (AP, yHEP), Michael Schimp (MS, yHEP), Christian Stegmann (CS, DESY).

Absent:

All others.

Invitation and agenda:

By email.

Summary	Action
<p>1. Reports</p> <p><u>Strategy paper (AH & UK):</u> 200 copies of the strategy paper prepared for the strategy meeting in the BMBF (May 2019) have been printed. The KAT members and the astroparticle group leaders have received copies for their personal use. About 60 copies are still available and can be obtained from AH on request.</p> <p><u>KAT “welcome package” (UK):</u> In the context of including new members into the astroparticle group leader mailing list it has been discussed how to convey appropriate information to these new colleagues. UK suggests producing a “Welcome package” including information on KAT, on the mailing lists and their recommended use, the KAT web pages and the regular events such as the strategy meeting in Bad Honnef and the “Zeuthen meeting”. UK will provide a draft version. Some of this information, in particular relating to the email lists, will also be included in the KAT web pages.</p> <p><u>IceCube Upgrade (AH):</u> NSF has decided to fund the IceCube-Upgrade project with 23M US\$. Additional funding comes from Germany (5.7M € from HGF), Japan (3M US\$) and Michigan State University (3.4M US\$). A press conference announcing the NSF decision was held on 16 July. The German groups launched 4 press releases, coordinated with BMBF.</p> <p><u>ELI (UK):</u> PT-DESY (Ch. Romig) has inquired on the expected use by astroparticle groups of the ELI-Beamline and ELI-ALPS infrastructures in the Czech Republic and Hungary, respectively. Replies were solicited from KAT and the astroparticle group leaders. Two fields of potential interest were mentioned: Nuclear astrophysics and laboratory astrophysics. Ch. Romig was informed correspondingly.</p> <p><u>Inauguration Felsenkeller (AH):</u> The accelerator in the “Felsenkeller” of TU Dresden has been inaugurated on 4 July 2019, in presence of Nobel laureate Takaaki Kajita.</p>	<p>UK: Prepare draft welcome package (Sept. 2019)</p> <p>ML: Include information on KAT web page</p>

<p>2. Strategy meeting and preparation of Verbundforschung call As announced during the strategy meeting, the head of BMBF unit 711, Dr. Fischer, has left the unit and is now head of unit 712. Dr. Kroseberg will act as interim head of 711, supported by Dr. Gast.</p> <p>MH reports that the same timeline is expected as in the previous funding period (call published by end-August, deadline for applications on 1 November). No information on the contents of the call and the funding available for the next 3-year period was given. It is under discussion whether applications will be in English language.</p> <p>The Gutachterausschuss (Federal review panel) needs to be reconstituted before the upcoming evaluation round. This process has not yet started.</p>	n/a
<p>3. EPPSU and APPEC (Granada meeting); Gravitational waves On 13-16 May 2019, Granada hosted a workshop in the context of the <i>European Particle Physics Strategy Upgrade</i> (EPPSU) process, followed by a meeting of the APPEC General Assembly.</p> <p><u>EPPSU</u>: CS and AH report. Astroparticle Physics (APP) was well represented at the meeting and amongst the papers submitted to it. Many discussions and presentations included APP topics, in particular multi-messenger astrophysics and gravitational waves. A proposal to create a Dark Matter platform at CERN, similar to the neutrino platform, seems to have received little support. A central topic was the role of CERN in the Einstein Telescope. The next step in the EPPSU process is a "Briefing Book" (September 2019), for which all speakers have provided a one-page summary of their presentations. The final strategy document will be discussed and concluded at a meeting in Bad Honnef, January 2020.</p> <p>Eckhard Elsen (CERN Research Director) has reminded people that any CERN activity towards the Einstein Telescope requires a mandate by the CERN Council. Corresponding lobbying on the national level may be important.</p> <p><u>APPEC</u>: CS and AH report. A European town meeting on astroparticle physics is planned for late 2020 or early 2021 to strengthen the European community and to develop consistent strategies. More information will become available in December 2019. ML announces that European meetings on the SAC-selected focus topics $0\nu\beta\beta$ and Dark Matter are planned in 2020; they may serve as preparation for the town meeting.</p> <p>The <i>European Centre for Astroparticle Theory (EuCAPT)</i> has been established at CERN. Founding director is Gianfranco Bertone.</p> <p><u>Gravitational waves</u>: CS reports on recent developments. The initiative towards Einstein Telescope (ET) is currently driven by NRW and RWTH Aachen, where Achim Stahl is very active. There has been a meeting of CS, Achim Stahl and Marek Kowalski with the DESY director, Helmut Dosch, who is also vice-president of HGF. The overall mood was positive, even though a lot remains to be achieved. Adverse aspects are the extra funding required for FAIR and that fact that the German roadmap process for research infrastructures is currently closed. RE: The relation to the US project</p>	n/a

<p><i>Cosmic Explorer</i> has to be kept in mind, concerning both competition and complementarity.</p> <p>MH: Should gravitational waves will be included in the Verbundforschung call, it will be important to form a convincing consortium, with unique selling points of all partners. Harald Lück is starting to contact candidate partners.</p> <p>On 22/23 October 2019, a workshop on Science of Third-Generation Gravitational-Wave Detectors will be organised in Berlin.</p>	
<p>4. ErUM-Data</p> <p><u>AH reports.</u> After the official presentation of the ErUM-Data brochure to BMBF an action plan is emerging, with a first call expected in late 2020 or early 2021. The form of the funding instrument is still under discussion, but it seems clear that HGF and MPG institutes will be included.</p> <p>The proponents meanwhile have started to build a structure, with a <i>Digitisation Board</i> as steering instance. This board will comprise the main authors of the brochure (amongst them Martin Erdmann) plus representatives of the different communities (KAT, KET, ...). It was unanimously supported that AH shall represent KAT in the Digitisation Board.</p>	n/a
<p>5. NFDI (Nationale Forschungsdaten-Infrastruktur)</p> <p><u>AH reports.</u> At the NFDI conference in Bonn, 13/14 May 2019, 57 consortia presented their <i>Extended Abstracts</i>, amongst them six from physics, containing one by DPG as well as Astro-NFDI (astronomy and some components of astroparticle physics, most notably CTA) and PAHN-PaN (particle, astroparticle, hadronic and nuclear physics). The separation of Astro-NFDI and PAHN-PaN is thought to be the “edge of the atmosphere”, i.e. the former deals with astronomy/astrophysics data and the latter with data recorded by ground-based detectors. On 13 June 2019, DPG organised a NFDI workshop. It was concluded that the DPG would not submit a proposal on their own but be included as a partner in the individual physics NFDI initiatives. The photon (X-ray science) and neutron initiatives have merged, so that four physics NFDI initiatives are left.</p> <p>By 4 July, Letters of Intent (Lols) had to be submitted, “binding” if heading for a proposal in 2019 and noncommittal if targeting proposals in 2020 or 2021. Both Astro-NFDI and PAHN-PaN have handed in binding Lols. Astroparticle physics is represented in the management of these consortia by Stefan Wagner (Astro-NFDI) and AH (PAHN-PaN), respectively. Even though only a “handful” of the consortia had been considered sufficiently advanced for submitting binding Lols, 24 such documents have been received, plus 27 non-binding ones. The complete list is available on the DFG pages.</p> <p>The Lols are now being reviewed. The consortia will receive feedback in September; the full proposals are due at 15 October.</p>	n/a
<p>6. Bad Honnef meeting</p> <p>UK reports that the date (5/6 December) needs to be confirmed.</p>	

<p>There is unanimous support for doing so.</p> <p>After some discussion it was concluded that</p> <ul style="list-style-type: none"> • The meeting is to be announced to the community (KAT and group leaders) as soon as possible; • The Indico page will be hosted by KIT; • The KAT members are asked to suggest possible topics and candidate speakers. Based on this input, a draft agenda will be set up; • Gravitational waves will most likely again be a major topic. An option might be to invite a speaker from the Netherlands; • The meeting might serve to extend the strategic discussion beyond astroparticle physics (KET, KHuK, RDS). Concerns were expressed that such an initiative might be misinterpreted by other communities and could lead to defensive positions; • We should target a face-to-face KAT meeting on 5 Dec., but also need an extended face-to-face meeting in Sept./Oct. <p>As communicated by Dr. Gomer (Scientific Secretary, Physikzentrum), the only possible time slot for 2020 is 3/4 December. It was decided to reserve this date for KAT. It was also concluded that we should inquire regular longer-term reservations in the time window from late November to early December.</p>	<p>UK: Confirm date</p> <p>UK: Announce meeting</p> <p>AH: Set up Indico page</p> <p>UK: Invite suggestions from KAT</p> <p>UK: Inquire KAT availability at 5 Dec., prepare Doodle for Sept./Oct.</p> <p>UK: Confirm 3/4 Dec 2020 and inquire options beyond 2020</p>
<p>7. Zeuthen Meeting 2020</p> <p>The biennial community meeting (Zeuthen meeting) was last held in Sept. 2018 in Mainz. We agreed that it should be organised again in 2020 and that expressions of interest for hosting it are to be invited.</p>	<p>UK: Ask KAT and group leaders for expressions of interest</p>
<p>8. Cooperation with KET, KHuK and RDS</p> <p>Postponed to next face-to-face meeting</p>	<p>n/a</p>
<p>9. Update of KAT Leitlinien</p> <p>As already discussed at the constituting KAT session in March 2019, it would be good to decouple the KAT elections and the preparation of the strategy discussion with BMBF for the next funding period. Currently, the corresponding dates are in March and May of the same year, respectively, "synchronised" by 3-year periods of KAT elections and Verbundforschung cycles. Changing this will require an amendment of the Leitlinien. Further changes that might be considered are including the yHEP representatives as ex-officio members (who have no voting rights), and to provide an English translation of the Leitlinien.</p> <p>The final decision on the amendment must be taken by the community at the Zeuthen meeting. KAT is responsible for drafting and presenting the amendment. We target at discussing the amendment in Bad Honnef 2019.</p>	<p>UK: Draft amendment, discuss in KAT</p>

Erlangen, 16 October 202019

Andreas Haungs and Uli Katz