

40th RD50 Collaboration Board Meeting

CERN

Time: Tuesday, 21 June 2022, 14:40-19:00 CEST

Location: CERN, BE auditorium 6/2-024 & Virtual/Remote via Zoom

<https://indico.cern.ch/event/1171235/>

Agenda:

- 1.) ECFA detector roadmap, its implementation and future of RD50
 - a) DRD3 implementation plan (P. Allport)
 - b) ECFA detector R&D roadmap (Nicolo Cartiglia, G. Pellegrini)
 - c) RD50 management proposal for DRD3 implementation plan (M. Moll, G. Casse)
- 2.) Acknowledgment of the CERN council decision on Russian/Belorussian co-operation
- 3.) Report of the spokespersons (G. Casse, M. Moll)
 - a) Short status review
 - b) Review of the RD50 projects
 - c) Conferences with RD50 participation
- 4.) Financial report (M. Moll)
 - a) Budget status
 - b) Financial status of RD50 project
- 5.) Next workshop in Seville – an update
- 6.) Approval of the minutes from the last CB meeting
- 7.) AOB

Minutes:

- 1.) **ECFA detector roadmap, its implementation and future of RD50**
 - a) **DRD3 implementation plan (P. Allport)**
 - b) **ECFA detector R&D roadmap (Nicolo Cartiglia, G. Pellegrini)**
 - c) **RD50 management proposal for DRD3 implementation plan (M. Moll, G. Casse)**

Giulio Pellegrini – as one of the conveners of the task force TF3 (solid state detectors) of the ECFA Detector R&D Roadmap Update – gave an overview of the process with emphasis on solid state detectors, his slides have been uploaded to the agenda: <https://indi.to/HL8cF>

Phil Allport – as chair of the ECFA Detector R&D Roadmap panel – gave a presentation with a broader strategical view and additional background information, his slides can be found on the agenda: <https://indi.to/VGSKX>

A lively discussion ranging from global questions (e.g. regarding the proposed funding mechanism for generic detector R&D – which may not work with all funding agencies, e.g. in Italy, Spain...) to details (are monolithic CMOS/DMAPs detectors within the purview of TF3 or TF7?) ensued. Several questions, e.g. the brief anticipated time scale to transition the current

established CERN RD collaborations into "DRD" collaborations, were debated before Phil had to leave.

The co-spokespersons Michael Moll and Gianluigi Casse outlined the RD50 management's point of view on the matter. On the one hand, the change outlined by Giulio and Phil was seen as very welcome, as it would introduce and establish a continuity in detector R&D funding. Besides, RD50 will essentially come to an end with the implementation of the HL-LHC upgrades. However, the way forward was not really clear in the RD50 management's view and this was expressed in a joint letter with the RD51 collaboration management to CERN management, the ECFA chair and the ECFA Detector Panel chair – due to the urgency and confidentiality requests by ECFA without a formal mandate from the CB. The letter (attached to the invitation and included in the spokespersons' report uploaded to the CB agenda page) deliberates on the timelines and transition strategy, advocating sufficient transition periods, using RD50 and RD51 as nucleation points for new DRD collaborations and in general to adopt a community-driven rather than a top-down approach. Furthermore, the huge size of a "DRD3"-collaboration, the implications of future reviews by two committees compared to already existing and more lightweight review processes and questions about the funding schemes were pointed out.

Further intense discussion touched on points regarding what the envisaged funding would constitute (core vs. full) and how it would fit into the policies of different funding agencies (with the example of Spain up to now only funding R&D for specified experiments, not "pure" R&D activities/collaborations), how "blue-sky research" is defined and whether it is contained in DRD3, how the DRD3 commitments are different from the current RD50 5-year research plan – what would be fixed in an MoU?

The RD50 management was tasked with searching a path with the stakeholders like ECFA and CERN towards a smooth transition from RD50 to a (or more) DRD3 collaborations, also in view of the ongoing RD50 common projects.

2.) Acknowledgment of the CERN council decision on Russian/Belorussian co-operation

The CERN council decision of 17 June 2022 and its implications for RD50 were briefly discussed.

3.) Report of the spokespersons (G. Casse, M. Moll)

- a) Short status review**
- b) Review of the RD50 projects**
- c) Conferences with RD50 participation**

The report slides are uploaded to the CB meeting's indico page. A few key points:

- Next LHCC review due in September 2022
- 4 new common projects approved in 2021, only 1 in 2022 under discussion – encouragement to submit projects

- Participation in RD50 workshops has gone up dramatically with the advent of online/hybrid workshops, also the number of presentation requests has peaked, collaboration size has grown – keep 4-day workshop format
- Current RD50 work plan ends in June 2023 – unclear whether a new work plan would still be submitted to the LHCC or be part of a transition strategy

4.) Financial report (M. Moll)

a) Budget status

b) Financial status of RD50 project

The report slides are uploaded to the CB meeting's indico page. The present RD50 common fund budget is 650 kCHF, with new/further common project proposals being much encouraged.

5.) Next workshop in Seville – an update

A brief oral update was given on the venue and organisation of the next RD50 workshop, taking place from 29 November to 2 December 2022 in Seville. Due to the pandemic and the large interest in online participation during the recent RD50 workshops, a hybrid format is planned.

6.) Approval of the minutes from the last CB meeting

The minutes had been attached to the invitation to the CB meeting and were approved.

7.) AOB

None