

# Future experimental programs in HEP and the ECFA detector R&D roadmap

*Saturday 7 January 2023 15:15 (40 minutes)*

In 2020, after a wide consultation of the community, the update of the European Strategy outlined an ambitious and visionary scientific program for HEP. It considers, over decades, a global experimental endeavour to discover and study phenomena beyond the predictions of the Standard Model; in direct or indirect searches, at accelerators, nuclear reactors or cosmic ray facilities. In this context, ECFA developed two roadmaps for a realistic planning of the accelerator and detector R&D that should ensure the success of these programs. The presentation provides an overview of the instrumentation challenges. It highlights technical innovations that can pave the path toward timely delivered detectors of unprecedented performance.

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**Session Classification:** Invited talks VIII