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RF developments for future colliders

A Coordination Panel of European RF experts is following up the implementation of the Accelerator R&D roadmap prepared for the European Large National Laboratory Directors Group (LDG) of CERN in Jan 2022, on the topic of high-gradient RF structures and systems.

This paper is intended to summarise the main results achieved in 2022-25, those still expected during the current ESPP period (until 2026) and to provide prioritised directions for future R&D to be conducted during the exploitation of the next ESPP update (2027-33), to best fulfil the needs of the principal collider schemes.

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