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The DRD4 Collaboration for research and development on photon detectors and particle identification techniques

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The DRD4 international Collaboration has been formed at the beginning of 2024 following the ECFA Detector R&D Roadmap. The scope of the Collaboration, which is anchored at CERN, is to bundle and boost R&D activities in photodetector technology and particle identification techniques for building future high-energy physics (HEP) experiments and facilities. DRD4 also covers scintillating fibre tracking as well as transition radiation detectors based on solid state X-ray detectors. An overview of the scientific scope and organisation of DRD4 will be presented, with particular focus on the strategic role of the Collaboration for the future of HEP, and the main technological challenges will be discussed.

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