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Prospects for physics at FCC-hh

This submission reviews and updates the extensive work done over the years to explore and quantify the physics potential of FCC-hh, the hadron collider component of the integrated Future Circular Collider facility. The document introduces the context of these studies, as it has developed over the years, and offers an update of key targets of FCC-hh such as the precision Higgs studies and the discovery reach at the highest mass scales. New analyses added or improved with respect to the CDR, are introduced. A general assessment is also given of the impact of the new energy/luminosity baseline for the accelerator, and of alternative configurations, on the physics results.

Authors: MANGANO, Michelangelo (CERN); SELVAGGI, Michele (CERN); STAPF, Birgit (CERN); TALIERCIO, Angela (Northwestern University (US)); WILLIAMS, Sarah Louise (University of Cambridge (GB))