

InterTwin : an interdisciplinary Digital Twin for Particle Physics

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High energy physics, radio astronomy, astroparticle physics, all are expected to significantly advance the state of the art of modelling and simulation. The EU-funded interTwin project will co-design and implement the prototype of an interdisciplinary digital twin engine. This open-source platform will provide generic and tailored software components for modelling and simulation to integrate application-specific digital twins. The goal is to develop a common approach that is applicable across the whole spectrum of scientific disciplines to facilitate developments and collaboration. As a result, a consolidation of software technologies supporting research will emerge. In this presentation the developments of the project interTwin will be presented with a focus on HEP simulations from an experimental (detector simulations) and theoretical (Lattice QCD simulations).

Primary author: CAMPOS PLASENCIA, Isabel (Consejo Superior de Investigaciones Cientificas (CSIC) (ES))

Presenter: CAMPOS PLASENCIA, Isabel (Consejo Superior de Investigaciones Cientificas (CSIC) (ES))

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