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Computing activities for the Panda experiment at FAIR

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The Panda experiment at the future facility FAIR will provide valuable data for our present understanding of the strong interaction. In preparation for the experiments, large-scale simulations for design and feasibility studies are performed exploiting a new software framework, Fair/PandaROOT, which is based on ROOT and the Virtual Monte Carlo (VMC) interface. In this paper, the various novel algorithms and methods for track reconstruction and visualization, and for higher-level data analysis are presented. Furthermore, a status report and future plans for a high-performance computing environment for Panda will be discussed exploiting an AliEN-based GRID infrastructure and R&D on various parallelization techniques.

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