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Research Data in Lattice Quantum Field Theory

Research in Lattice Quantum Field Theory (LQFT) is performed by international collaborations in both overlapping and disjoint research projects studying a wide range of non-perturbative physical problems. The generated data, which can roughly be classified into three tiers, span the whole spectrum of storage, metadata and lifetime requirements.

LQFT simulations are some of the most expensive in computational science and there are efforts underway to make some of the research data accessible in a FAIR way. The challenges to be overcome to get there are substantial.

We present some of these challenges and examples of putative solutions to provide a basis for a discussion of the transformations required at the level of policy and infrastructure in order to encourage FAIR principles to be adopted as widely as possible in the community.

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