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Computing Challenges and Opportunities for FAIR experiments

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Computing remains a prominent and challenging element in the data processing scheme of today's design of future experiments. With the increasing complexity of heterogeneous detectors with massive amounts of electronic channels producing records of physics data, thereby, serving large and diverse international scientific communities, the "big data challenge" has also become a central theme for the software and computing infrastructure for FAIR experiments. In the past decades, nuclear physics and related communities have followed and exploited the computing developments of high-energy physics (HEP) experiments. However, the ambitions of FAIR experiments, in particular with respect to the online and distributed computing demands, together with the paradigm shift in computing architectures, require a different and a more pro-active approach. In this talk, I will highlight the various computing challenges and opportunities for FAIR experiments in perspectives with the ongoing technological developments from other fields, such as HEP, astronomy, etc.

Primary author: MESSCHENDORP, Johan (KVI-CART, U Groningen)

Presenter: MESSCHENDORP, Johan (KVI-CART, U Groningen)

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