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Advanced multi-platform visualization framework for particle physics experiments

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The 3D visualization and event-display, in particular, is an unavoidable part of any modern accelerator and non-accelerator experiment. Currently, there are a lot of those systems - any large experiment develops something on their own. Still, none of those systems has a stable open-source distribution and most of them are developed for a specific experiment and hard to port for another experiment. Any new experiment is forced to implement a new system, which requires qualified programmers manpower and the problem is complicated by the fact that those systems are almost never self-contained and die quickly as soon as they stop being supported by their developers. In this talk, we would like to present a multi-platform (including web-based tools and virtual reality) dataforge-vis framework which allows designing complicated dynamic 3d-visualization tools for particle physics without relying on ROOT or any other system. The framework is currently being adopted for BM@N experiment at NICA.

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