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Visualization of Experimental Data in Web-based Virtual Reality

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Technological advances in the field of virtual reality and personal computation in general brought us to the era of web-based virtual reality, where virtual environments can be accessed directly from web browsers and without the need of installation of any additional software. Such online virtual environments seem to be a promising tool for scientific data visualization. When accessed through appropriate hardware, such as VR headsets, they also offer full immersion and isolation from external influences.

In this contribution, we present a prototype solution for a histogram visualization in online virtual environments. The prototype has been implemented using A-Frame framework for visualization, React.js for compositionality and JSROOT for histogram data acquisition. Its user interface is primarily adjusted to personal computers and VR headsets.

Summary

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