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Collaborative Tools for the ePIC Experiment

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The ePIC Collaboration is actively working on the Technical Design Report (TDR) for its future detector at the Electron Ion Collider to be built at Brookhaven National Laboratory within the next decade. The development of the TDR by an international Collaboration with over 850 members requires a plethora of physics and detector studies that need to be coordinated. An effective set of Collaborative Tools and an open, collaborative environment are instrumental for the success of this effort. This includes the Collaboration Web presence, modern digital repositories (Zenodo), collaborative document development (Google Docs, Overleaf), file sharing (XRootD, Google Drive), communication (Zoom and Mattermost). ePIC is leveraging GitHub for its shared development environment and code version control and validation. Current activities of the ePIC Collaboration in this area are informed in part by the previous successful Data and Analysis Preservation effort of the PHENIX Collaboration at RHIC. This included a complete redesign of the Collaboration's public website with the goal of simplified long-term maintenance, preservation of its software environment using containerization techniques, and migration of its various research materials to Zenodo. In this presentation we describe the technology choices and progress in the area of the ePIC Collaborative Tools, covering the emerging web presence to replace the existing Wiki, communications and collaborative software development, digital repositories and routes to possible future data migration to new document development workflow systems.

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