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HEP in the browser using JupyterLite and Emscripten-forge

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When enumerating the environments in which HEP researchers perform their analyses, the browser may not be the first that comes to mind. Yet, recent innovations in the tooling behind conda-forge, Emscripten, and web-assembly have made it easier than ever to deploy complex, multiple-dependency environments to the web.

An introduction will be given to the technologies that make this possible, followed by a demonstration of deploying a HEP tutorial analysis to GitHub pages. An emphasis will be made upon the importance of porting HEP packages with compiled code to leverage these new features.

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