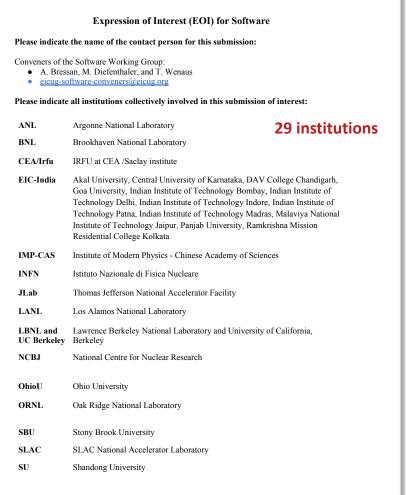
Expression of Interest for Software

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https://indico.bnl.gov/event/8552/contributions/43221/

Common Projects

- Software Tools for Simulations and Reconstruction
 - Monte Carlo Event Generators
 - Detector Simulations
 - Reconstruction
 - Validation
- Middleware and Preservation
 - Workflows
 - Data and Analysis Preservation
- Interaction with the Software Tools
 - Explore User-Centered Design
 - Discoverable Software
 - Data Model

Future Technologies

- Artificial Intelligence
- Heterogeneous computing
- New languages and tools
- Collaborative software

Evolving the Eol towards a Work Plan for the SWG

https://eic.github.io/activities/eoi.html

Expression of Interest C Subs as participated in the call for Expressions of Interest (EoI) by the EUCA. To be community to present software needs for the EUC and how to meet interest. Cuestions and the Community to present software needs for the EUC and how to meet interest. • Asympticated in the call for Expressions of Interest (EoI) by the EUCA interest (EoI) by the EUCA interest (EoI) by the EUCA interest technicate interest. Ender technicate interest. <	Expression of Interest for Software		
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Update on Common Projects

- Software Tools for Simulations and Reconstruction
 - Monte Carlo Event Generators
 - **02/24** Kolja reported on <u>maintaining Pythia6 for the EIC</u>.
 - 03/10 Prabi reported on MC-data comparisons for the EIC and Barak discussed random number seeding
 - **ToDo** Request for suggestions what MCEG to use
 - Detector Simulations
 - 03/25, 03/31 Project eAST, CAD import started, including status report of existing detector simulations by EIC Generic R&D program
 - Started Note on "Accelerator and beam conditions critical for EIC simulations"
 - Reconstruction
 - 02/24 Joe Osborn updated us on <u>ACTS for the EIC</u>.
 - Validation
 - MCEGs: see above
 - **Fun4All**: going through calorimeter simulations with the initial goal to provide parametrizations for eic-smear.
 - Starting stages eic-smear, ESCalate
- Middleware and Preservation, see also <u>Wouter's overview</u>
 - Workflows
 - Data and Analysis Preservation
 - 02/24 biweekly meetings, next April 12 at 11:0 a.m. (EDT)
- Interaction with the Software Tools
 - Explore User-Centered Design
 - 03/03 Kolja, Markus, Rebecca, Sylvester, Wouter presented report on "Status of Software Survey."
 - **04/07** Focus-group discussions started
 - Discoverable Software
 - **04/07** Wouter will report on first meeting, next meeting on April 19 at 11:00 a.m. (EDT)
 - Data Model
 - Common output format (Dmitry), data model for streaming readout (Jan)

EICUG SWG meeting, April 7, 2021.