

eAST documentation

Maxim Potekhin

Nuclear and Particle Physics Software Group



Project eAST Meeting

10/26/2021



Summary

- The eAST documentation website is taking shape
- Minor changes of layout and formatting were done in the past couple of weeks
- Proposed additions:
 - Document interactive commands
 - Is it possible to factor out textual part of the “Messenger” code into YAML etc so there is one source of documentation in the application and the website?
 - Cf. the “SetGuidance” method calls
 - NB. Hierarchical structure of the commands (/xyz/abc/) can result in a clean YAML layout, YAML can be parsed in both the C++ code and the website
- Design notes and tutorials (next slide)

Guidance for new users, geo reuse

- It may be beneficial to summarize the design goals for new users in a way they can immediately apply - cf. recent discussions in our group's e-mail (same applies to features like choice of UI)
- Perhaps a very basic tutorial, either primitive GDML or C++ would be helpful - currently the GDML content is not human-readable so users can't play with geometry and test their own ideas
- Importing/integrating geometries... Kolja's recent experience
- **ATHENA is heavily invested in DD4HEP, ECCE deeply integrates with fun4all - what's our strategy?**

Scope and goals of fast simulation

- Do we aim to model a realistic EIC detector, or just create a demonstration of principle?
- If it's the former, how do we import geometries from very different platforms?
- How do we QA fast sim?