Big Issues

Messaging Service (1)

- Pythia, VINCIA, and Dire all have very different approaches to messaging
- can/should we provide a consistent messaging service?
- what do users need/want?
- what do developers need/want?
- what do experiments need/want?

- current system is binary, either on or off
- messages are passed to cout, no use of cerr
- no levels of warning or information

Messaging Service (2)

- proposal from Marius
- levels?
 - error (causes Pythia to fail)
 - info (useful user information)
 - develop (useful developer information)
 - debug (all hope is lost and this now needs to be used)
- customizability?
 - specify level for locality of code (e.g. parton showers, hadronization)
 - allow information hooks (users could add asserts for errors)
 - pass messages to user as map<message, count>

Repository and Website (1)

- stay with GitLab?
 - stay with GitLab.com
 - migrate to gitlab.cern.ch (possible with light-weight accounts?)
 - convince hepforge to use GitLab
 - provide own GitLab server

repository access

- forked repositories (VINCIA)
- non-collaborator access
- public facing repository
- https://gitlab.com/Pythia8/releases

Repository and Website (2)

- website
 - o webmaster?
 - o where?
 - use GitLab pages?
 - https://gitlab.com/Pythia8/docs/
 - https://pythia8.gitlab.io/docs/

- new features
 - FAQ
 - PDFs and physics in HTML manual

Code Analysis and Staging

Docker images

- https://hub.docker.com/u/pythia8
- o dev, releases, tutorials repositories
- dev/test handles almost all dependencies (970 MB)
- dev/binder used by "generate" for Python interface (85 MB)
- continuous integration (CI) and development (CD)
 - https://gitlab.com/Pythia8/docs/pipelines, https://gitlab.com/Pythia8/papers/pipelines
 - set up pipelines for each commit/merge?
 - check code compiles
 - check tests pass against reference

analysis tools

- regularly run static code analysis?
- leave to CERN, or do locally?
- incorporate in CI/CD?