Session

Libraries and Toolkits for a parallel world

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Discussion Points

- Parallelization is both a chance and challenge to Geant4 and ROOT
- Development in that direction is a pre-requisite to experiments for a really successful use of many-core machines

• Questions:

• What is the vision for parallelization within these libraries?

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- What is the current status and which underlying technology will be used?
- What level of thread-safety can users expect?
- What implications does the task-based parallelism (currently favoured by the experiments) have on the design of the libraries?
- How can we avoid that experiment parallelization and library parallelization outsmart each other?
- Where would user code need adjustment?