

# Sessions

V: Physics Lists – Documentation

X: Configure / Testing

# Session V: Physics Lists – Documentation

- Working session
- Goal: agree upon and draft Physics Lists documentation pages
  - Based on what was agreed at Kobe
  - Using google sites, users can be allowed to edit sub-pages
- Achieved to create <http://sites.google.com/site/g4physicslisttest>
- Still a lot of work to be done, aiming at December

# Session X: Configure / Testing

- Two presentations
- B.Morgan: Replacing the Geant4 Build System with Modern Tools
- G.Folger: System Integration Testing

# Replacing the Geant4 Build System with Modern Tools

## 27: Summary

- Geant4 Metaconfig/Make buildsystem has to be replaced in near term
  - Metaconfig has increasing issues, and is OBSOLETE.
- Evaluation of modern build tools has identified CMake as the current best option
  - Scons evaluation will continue at low level.
- Prototype Geant4 CMake build available
  - <http://www2.warwick.ac.uk/fac/sci/physics/staff/research/bmorgan/geant4/geant4-9.2.1.tar.bz2>
- Brings many nice features for developers/users – interface, dependencies, packaging
- *Discussion needed in Collaboration on adoption and workplan.*

# System integration testing

- Over the last 18 month STT replaced tinderbox and related scripts by SPI nightly build system
  - Tinderbox difficult to understand and maintain
  - SPI nightlies run on Linux, Mac and Windows
  - SPI nightlies use QMtest for testing
    - Allowed to handle tests, examples,...
    - Allowed to increase number of test cases, now close to 90 test are run, this number is increasing
  - Transition transparent for developers