Momo: a G4 desktop

Geant4 Workshop
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Momo user doesn’t

- Code in C++,
- Set environment variables
- Write Makefile

must

- Know how to construct his detector
- Know relevant particles and their interactions
- Know how to evaluate the visualized events
Momo can do

- Define relatively simple detector geometry
  - Definition of materials and logical volumes in a general way
  - Define physical volumes in limited arrangements
- Electromagnetic interactions
  - Definition of all particles
  - Their e.m. interactions
  - Transport and decay are included by default
Handling environment variables
  - Check all env vars
  - Set any env vars for Makefile
    - Valid only during a Momo session

Creation of a skeleton main program
  - Includes detector and physics list classes

Creation of a Makefile
  - Makefile (Momomake.gmk) includes all env. Variables set by Momo

Compile
Momo’s work place

- Canonical Geant4 directories include
  - Visualization manager
  - Event generator class
  - Detector and physics list class files must be saved here
  - G4WORKDIR

- Platforms
  - Win2K + cygwin/Linux
  - Win2K + Java Web Start version of Momo
    - Only for creation of class files, not for compilation