

Geant 4

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Organizing and Implementing Efficient Geometry Strategies for Geant4

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Various approaches to organizing different geometries for efficient calculations will be discussed. Implementation details include ways to organize a large hierarchy of voxels in a binary tree like organization and simple placement rules of various logical volumes inside a mother logical volume. Specific results emphasize optical photon tracking, but the results are applicable to other simulations. All examples are from large scale scintillation detector arrays with optical photon tracking such as the MTAS (Modular Total Absorption Spectrometer) and LENS (Low Energy Neutrino Spectrometer).

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