

Lost in Translation

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Introduction

- Not meant to be an evaluation of intrinsic merits of the frameworks available in C++ and Java
 - Our motivations arose from the original Monte Carlo analysis work in the Java framework
 - Algorithms, tools etc.....
 - Could be an attractive option since LCIO exists
 - Could be restricted to your sub-detector
 - Doable in principle
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To Recon or not to Recon

- The transition to the Java framework could be made before or after 'reconstruction'
 - Reconstruction here includes calibrations, time-dependent corrections etc.
 - 'Before reconstruction' is the harder option
 - Geometry and Conditions the major issues
 - Geometry is the simpler one
 - In the Java framework the geometry is initialized by reading some web-accessible files
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State of the Detector

- A harder problem to bridge between the two frameworks
 - At the time of our investigations the Java framework could not handle database access to handle accessing state changes
 - In principle this can be provided but would take a substantial effort
 - Needs substantial interest.....
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Post-recon

- JAS is a viable and user friendly analysis tool
 - Geometry still needed but not a deal breaker
 - The Java framework may have better translational capability to full detector geometry
 - Code and tool exchange and coherence harder
 - The almost complete intersection of the developer-analyzer sets in CALICE reduces the practical value of this option
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