



Contribution ID: 287

Type: **Parallel**

## Exploiting new CPU architectures in the SuperB software framework

*Tuesday 22 May 2012 17:00 (25 minutes)*

The SuperB asymmetric energy  $e+e^-$  collider and detector to be built at the newly founded Nicola Cabibbo Lab will provide a uniquely sensitive probe of New Physics in the flavor sector of the Standard Model. Studying minute effects in the heavy quark and heavy lepton sectors requires a data sample of  $75 \text{ ab}^{-1}$  and a luminosity target of  $10^{36} \text{ cm}^{-2} \text{ s}^{-1}$ .

These parameters require a substantial growth in computing requirements and performances. The SuperB collaboration is thus investigating the advantages of new CPU architectures (multi and many cores) and how to exploit their capability of task parallelization in the framework for simulation and analysis software.

In this work we present the underlying architecture which we intend to use and some preliminary performance results of the first framework prototype.

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**Session Classification:** Event Processing

**Track Classification:** Event Processing (track 2)