



Contribution ID: 5

Type: **Presentation**

## THE DEVELOPMENT OF THE FABRICATION PROCESS OF "LOW MASS" CIRCUITS

*Wednesday 25 May 2005 15:00 (20 minutes)*

To improve the precision of particle detection measurements, there is a growing interest in the physics community for circuits built with low mass materials that are more transparent to particles. We have been working for two years in setting up a new process to build those high-density, low mass multilayer circuits based on aluminium instead of copper that is commonly used in industry. The ALICE Silicon Pixel Detector project has initiated the development and its flex bus circuit is the first one that has been created with this new technology. We have seen that the success and the best ways to find solutions did not only come from new technical ideas but also from the way the project was managed.

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**Session Classification:** Session 7

**Track Classification:** Special technologies