

Update on activities in Strasbourg

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- A first double-sided ladder equipped with 12 MIMOSA 26 sensors (0.35 μm) has been constructed and will be tested on beam at CERN in November 2011 (PLUME project).

- A first submission of a sensor in a 0.18 μm technology will be done in October 2011.

- Strasbourg and Frankfurt organised last week a "Workshop on system integration of highly granular and thin vertex detector" :

<http://indico.cern.ch/conferenceDisplay.py?confId=144152>

This workshop has served to exchange experiences and to search for synergies between the different vertex detector projects as carried out for example at CBM, STAR, ALICE, ILC, eIC and PANDA experiments.

- We continue to perform simulations of different geometries, studying the differences of performances with single- and double-sided layers. This is done up to now in the specific frame of the ALICE vertex detector upgrade, but conclusions may be used also for the SuperB vertex detector. We mainly investigate the improvement on pointing resolution and momentum reconstruction by using the mini-vector approach (correlating hits between the 2 sides of the double-sided layer).

- The final sensor for the STAR vertex detector (ULTIMATE, a 2x2 cm^2 sensor) has been validated and constructed, and integration is underway by STAR.

