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Recent Results of the 3D-Stripixel Si Detectors

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First prototype of the new 3D-Stripixel Detectors has been fabricated by CNM of Spain. TCT test results using lasers of various wavelengths (660 to 1.06um) have shown good 2D-position sensitivity with one-sided processing. CCE test by ALIBAVA using the laser with um-beam size have shown sub-pixel (80 um)2D position resolution. Recent BNL ALIBAVA tests using a 1.06 um laser with mm-beam size have shown clear 2D-position sensitivity as well. The 2D-position sensitivity has been measured as a function of detector bias voltages and laser intensity.

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