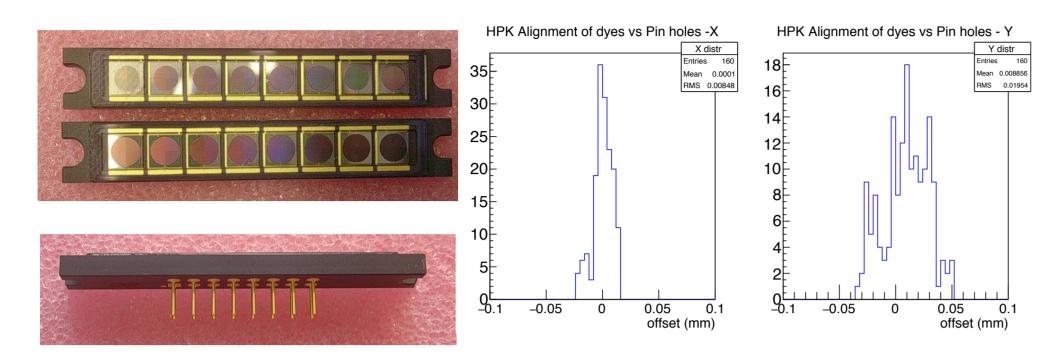
Parameters of the preproduction Series SiPMs for the CMS HCAL Phase I upgrade

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Custom packaged Arrays With 0.3 mm glass window



R&D on large dynamic range SiPMs in collaboration with Hamamatsu started in 2010. We now have 15 micron cell devices in 2 sizes, 2.8 mm and 3.3 mm diameter with reps. 27500 and 38500 cells. The 2.8 mm can readout a sum of 4 fibers and the 3.3 mm can readout a sum of 7 fibers

Uniformity of 175 Arrays

Fast Laser Response

Fast laser response for 2.8 mm into 15 ohm

