

Thin Active Edges



Each sensor chip is $50\text{ }\mu\text{m}$ thick

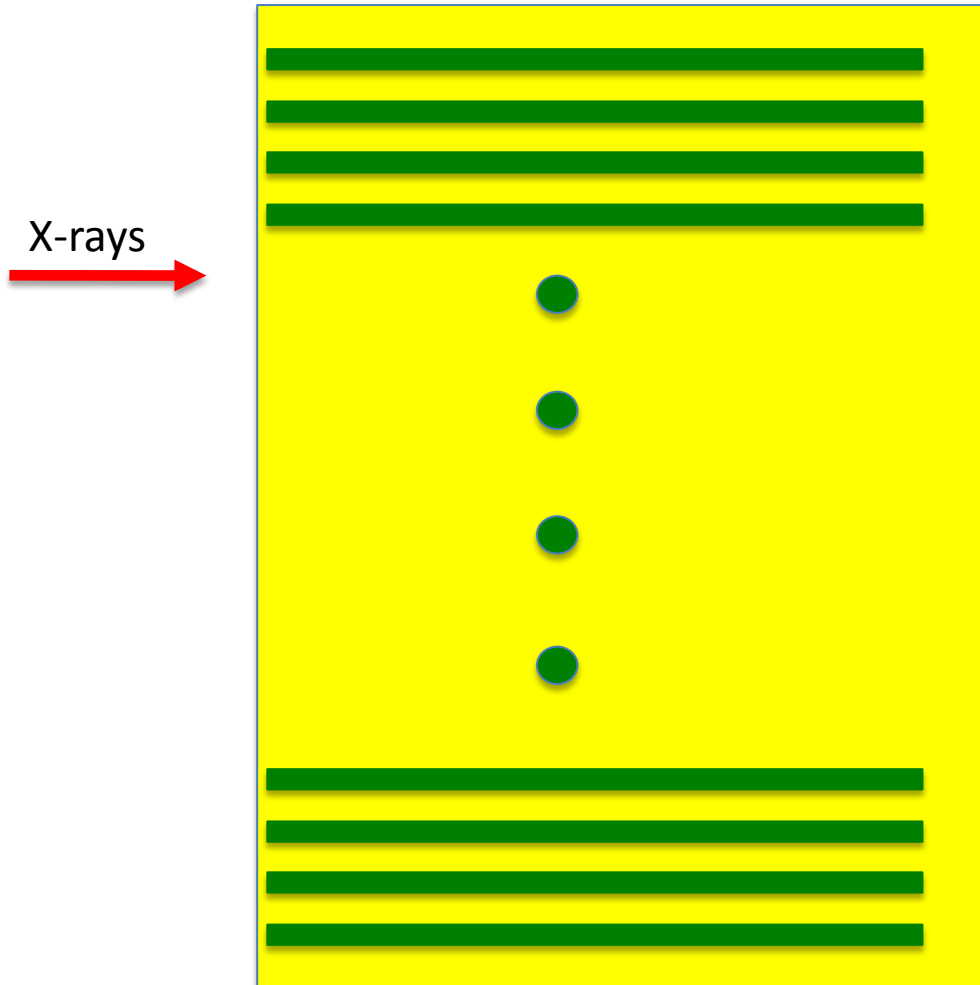
Each sensor is about 2 mm “deep”

Would need to stack 10 high to cover $500\text{ }\mu\text{m}$

Summed strip capacitance to backside is about 1 pF

Inter-strip capacitance should be 1-2 pF for a total of 3 pF

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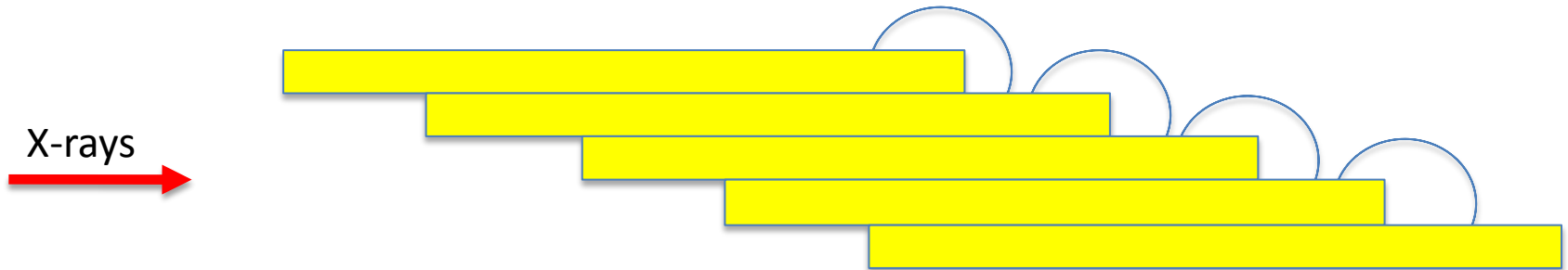


Each sensor has 128 or more strips
Strip pitch between 25 and 50 μm

Could stagger alternating sensors by
half the pitch to improve spatial
resolution

Main pitch limitation is wire
bonding

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If divergence is small and sensors well aligned the photon paths, then could make do with one sensor size.