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Silicon Pixel Tracker for ILC

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The Silicon Pixel Tracker (SPT), a 30 Gpixel detector, was first proposed at LCWS2008 as an improvement to the baseline ILC tracking systems. Since then there has been huge progress in the field, with developments such as the 12.5 Gpixel ITS2 for ALICE. We report on how this and other progress has enabled an even better performance spec than in 2008, using state-of-art Monolithic Active Pixel (MAPS) devices. Finally, there is scope for further developments, taking advantage of stacked devices using wafer-to-wafer bonding. This technology has reached an astonishing degree of perfection in commercial imaging systems, and is now becoming available to the scientific community.

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