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## **【922】 Development of Fast Timing Silicon Pixel Sensors for Positron Emission Tomography**

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The Thin-TOF PET (TT-PET) project aims at the construction of a positron emission tomographer based on silicon sensors with very high time resolution. Using TCAD simulation, a monolithic silicon pixel sensor aimed at 30 ps time resolution was designed and the properties of several test chips were measured. The sensor characteristics and the first comparison of the lab measurements with the simulations will be presented.

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