

TaichuPix1 Measurement

Tianya Wu

CEPC Meeting

twu@ifae.es

04-01-2021



EXCELENCIA
SEVERO
OCHOA



Barcelona Institute of
Science and Technology



華中師範大學
CENTRAL CHINA NORMAL UNIVERSITY

S Curve fit of TCX1

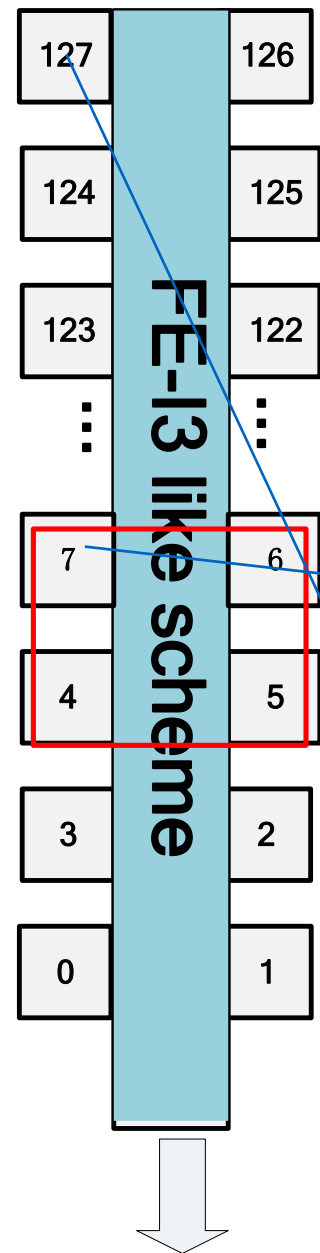
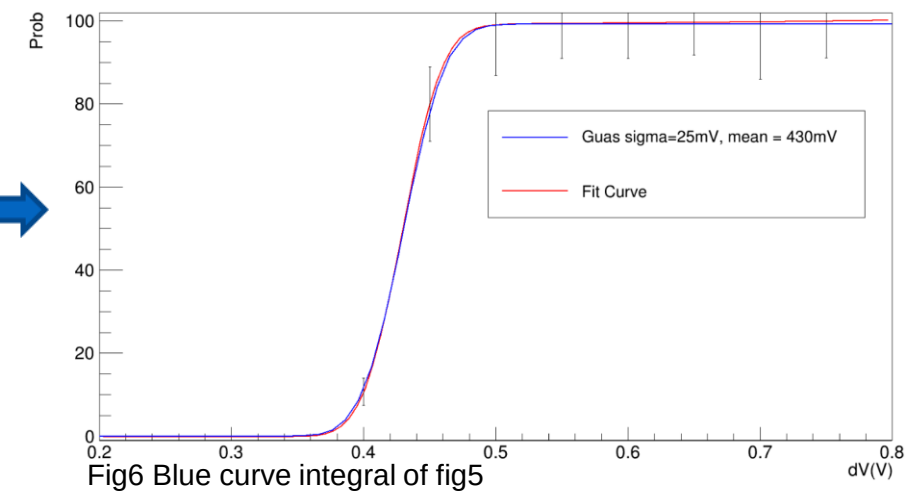
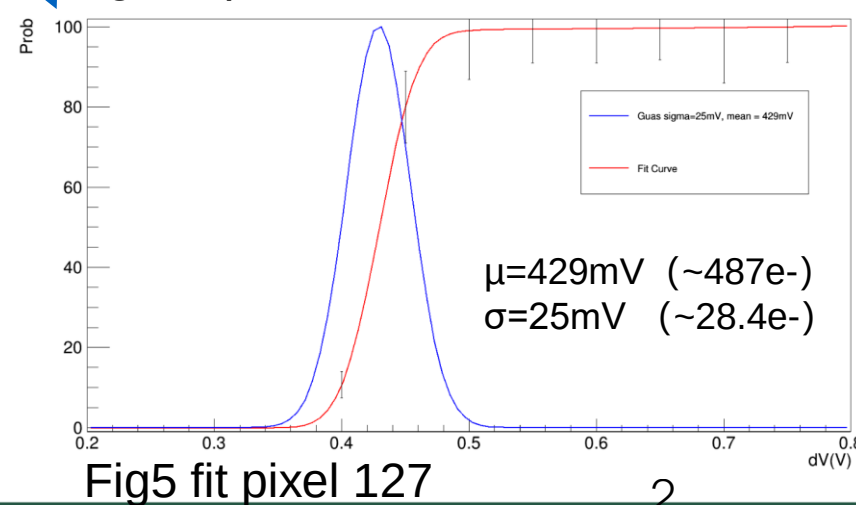
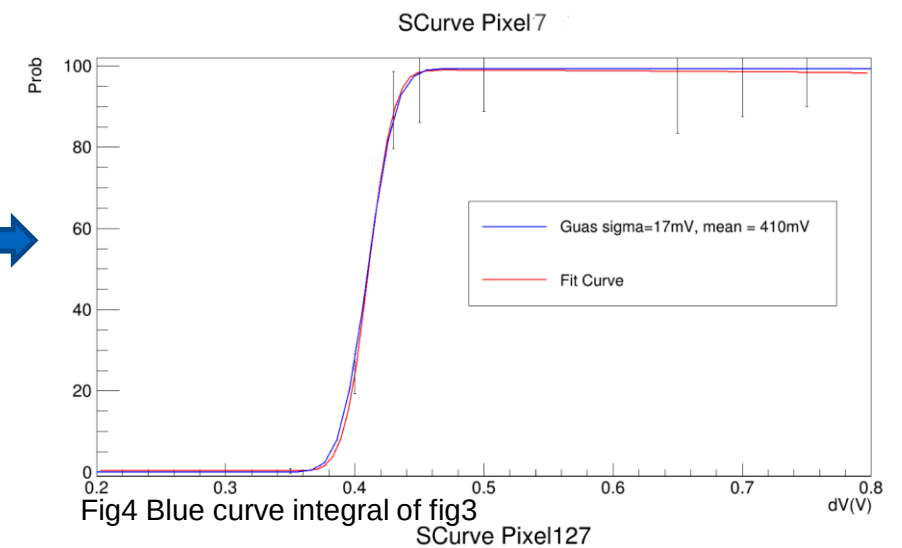
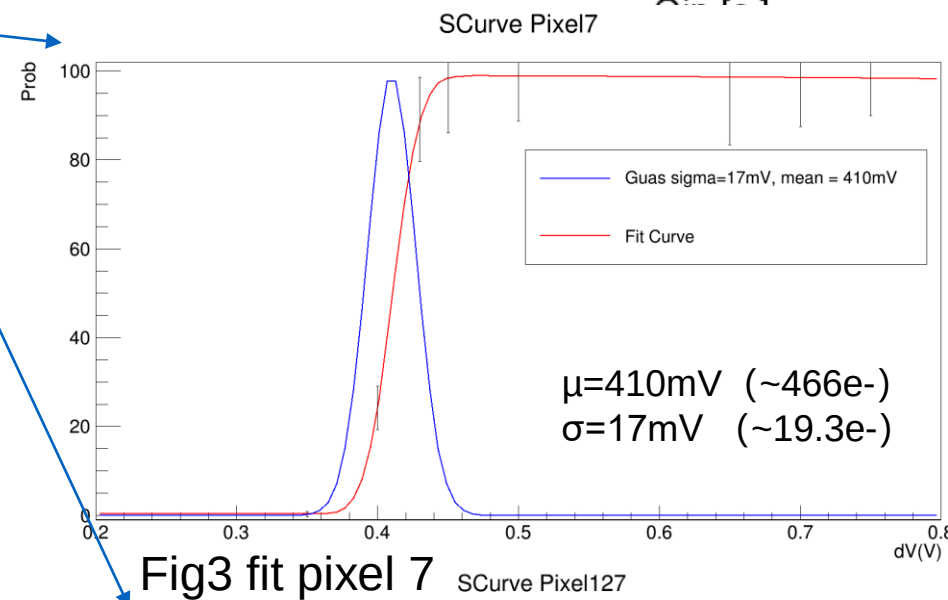
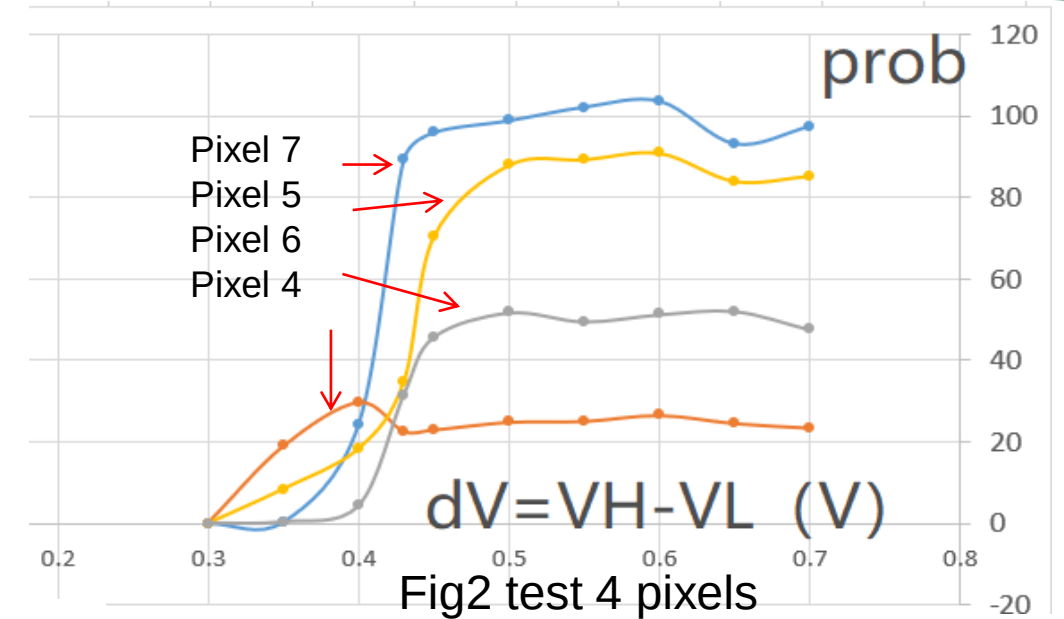
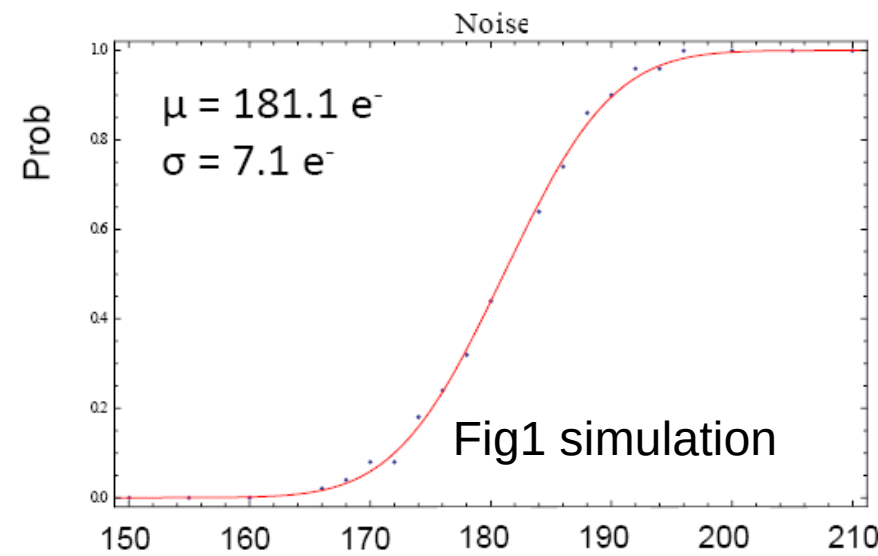
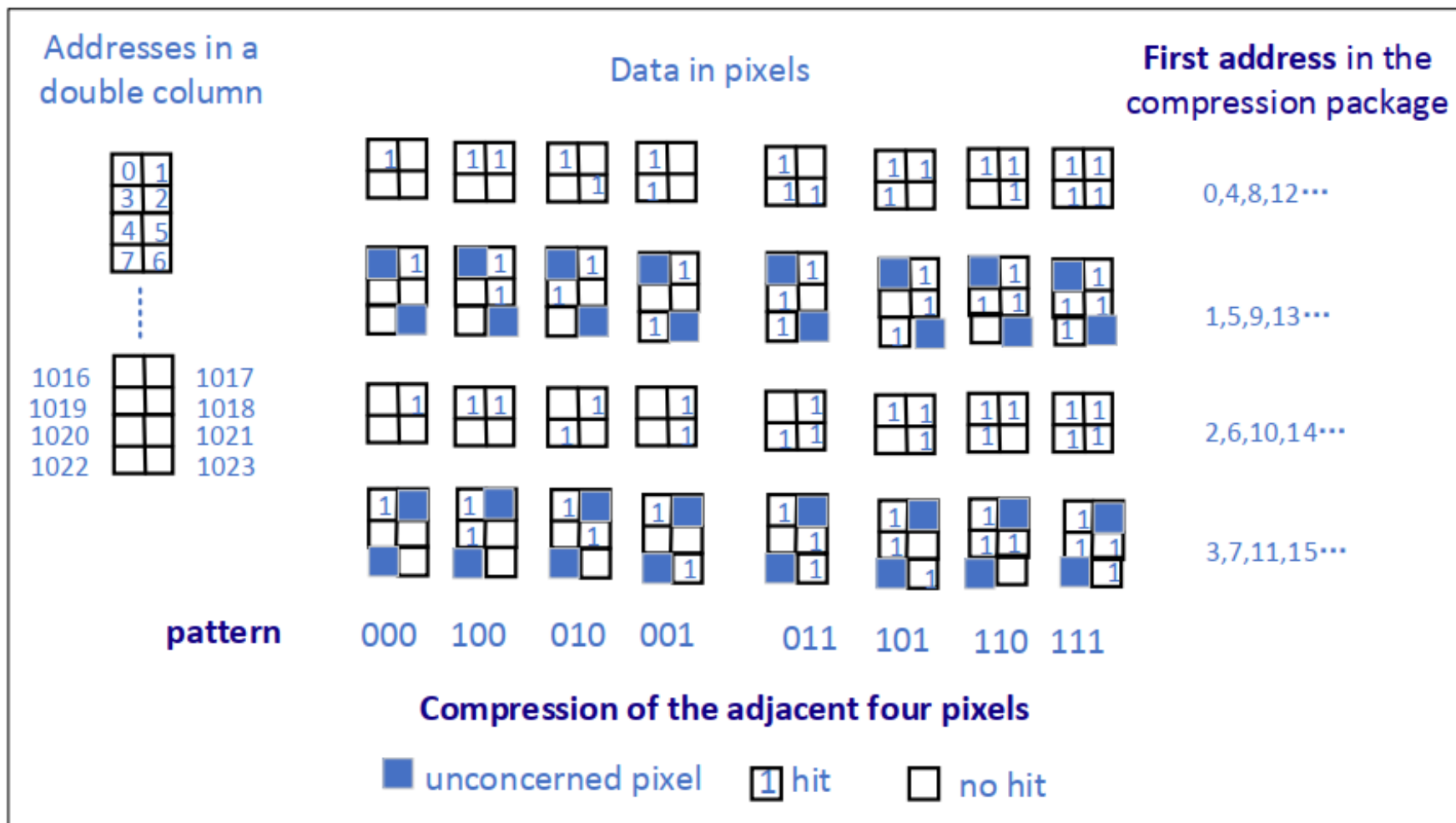


Fig1. Double Column24 turn on 4 adjacent Pixels(4/5/6/7)



Possible issue



Example of Data compression in peripheral logic

Fig 1 Refer from the slide of Xiaomin Wei

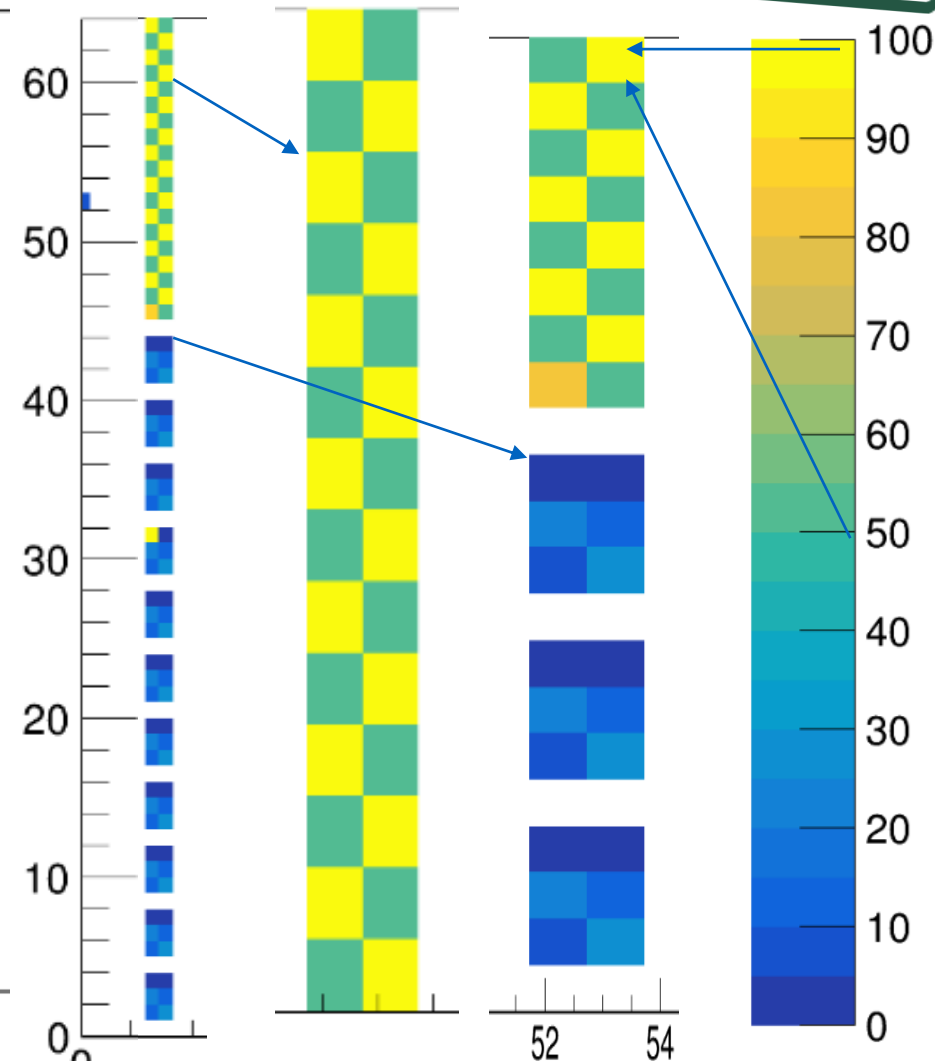


Fig 2 Double Column26

W/R	1	00001	TRIGN (default:0)	CPRN (default:0)	DOFREQ[1:0] (default:01)	SMOD (default:0)	CTM (default:0)	SPI_D (default:0)	
-----	---	-------	----------------------	---------------------	-----------------------------	---------------------	--------------------	----------------------	--

- I have to set SMOD=1 to stop receiving random data and wait a while to set SMOD=0 to capture data from pixel array? When I repeat WRITE the value to REGISTER 1 may sometimes CPRN =0?
- For TaichuPix2, it is stable with the SETUP of readout mode, so there is no risk to load a wrong value to REGISTER 1 ?



Thanks for your attention.