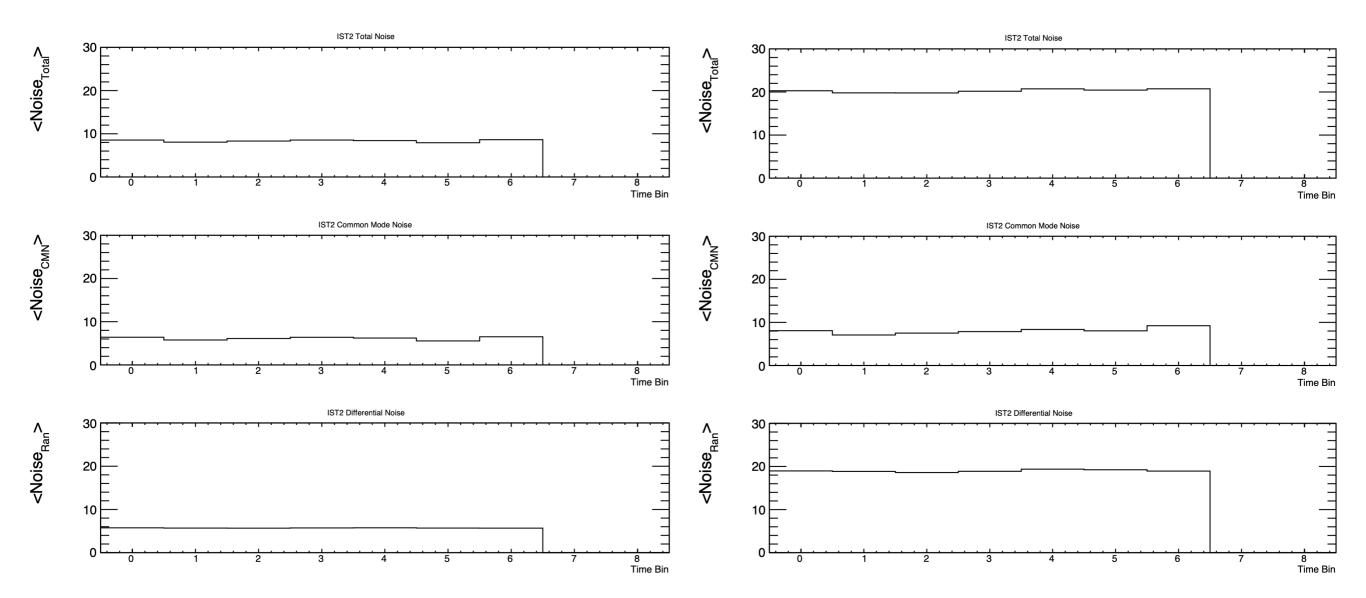


Noise of IST & FST

Xu Sun & Zhenyu Ye University of Illinois @ Chicago

IST 27 Noise from 2013

With Sensor

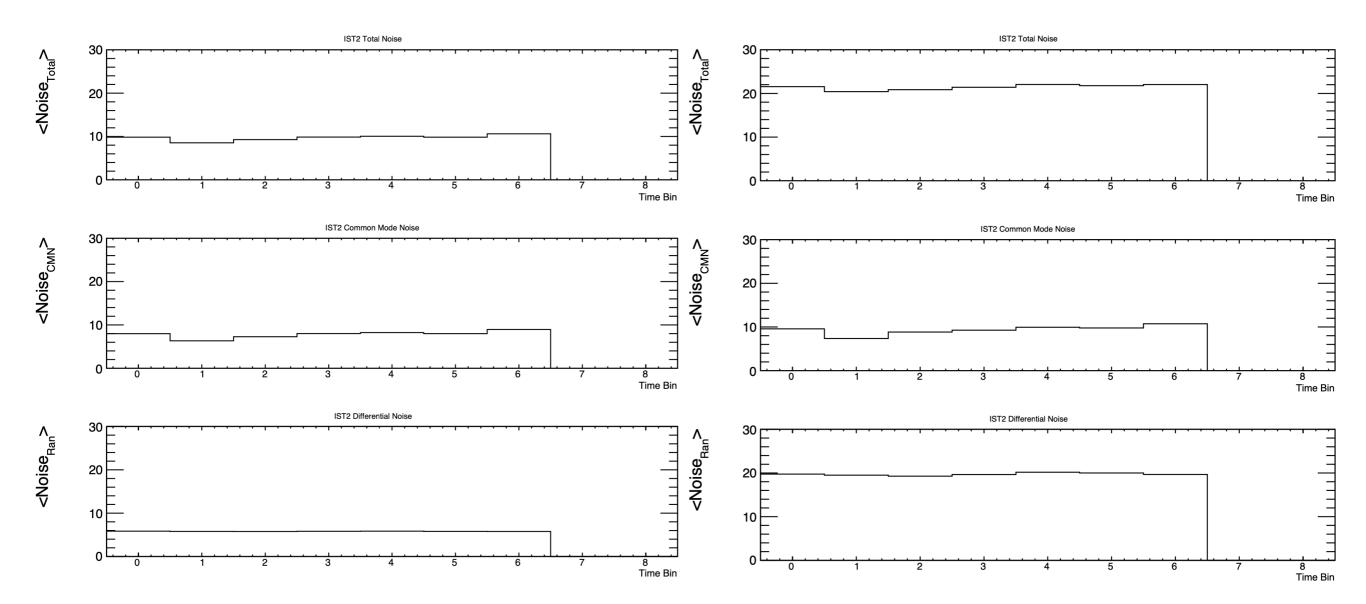


- Total & random noise increased significantly after sensor mounting.
- CMN is less affected by the sensor mounting.

Chip Only

IST 36 Noise from 2013

With Sensor



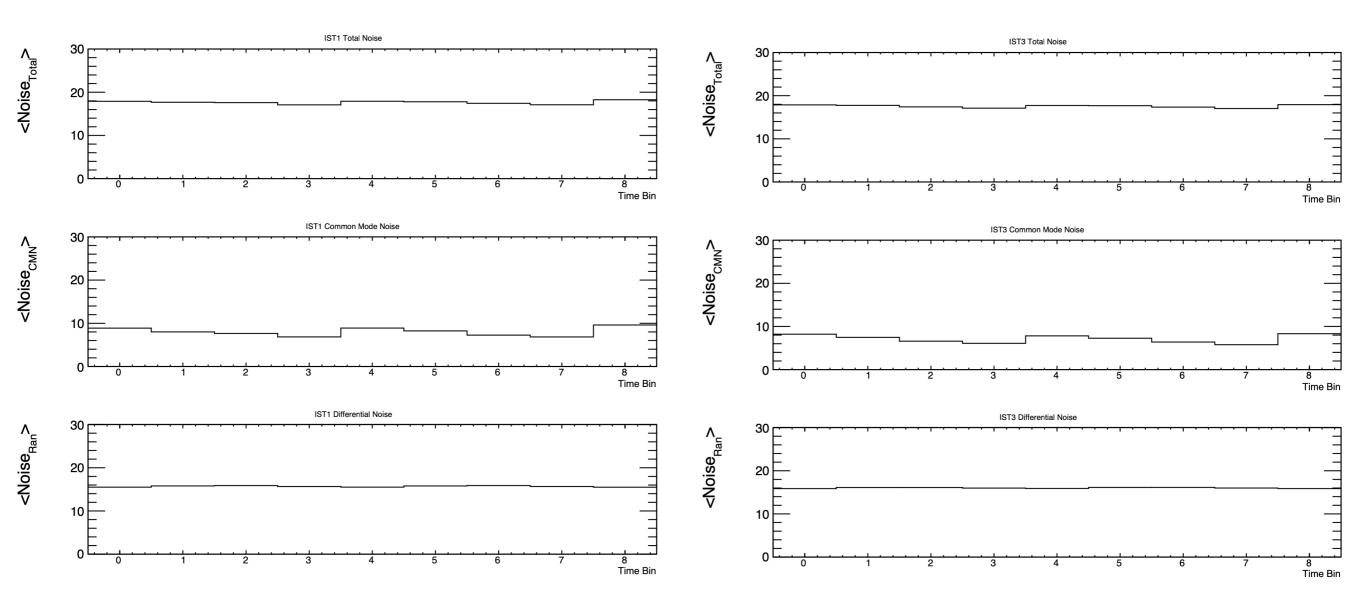
- Total & random noise increased significantly after sensor mounting.
- CMN is less affected by the sensor mounting.
- The noise patter is the same as IST27.

Chip Only



Top IST With Sensor

Bottom IST With Sensor



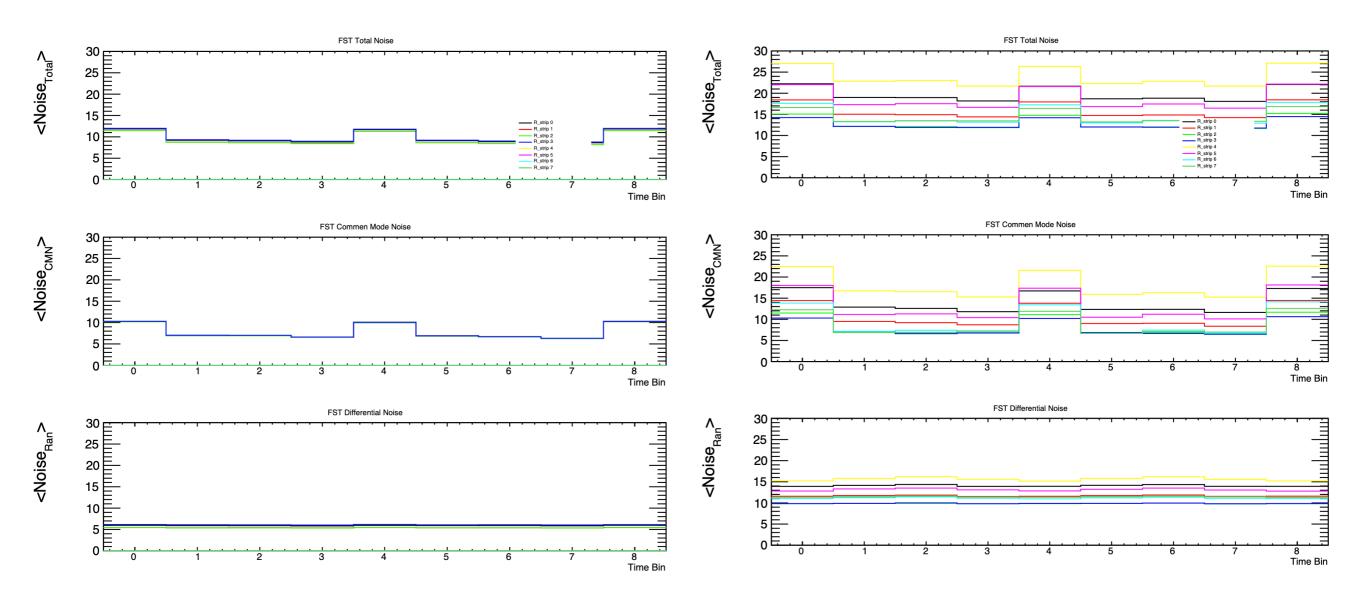
• Noise of IST in the current test stand behaves similarly to the IST from 2013 production.

FST 04 Noise

Chip Only



With Sensor



- Total & random noise increased significantly after sensor mounting.
- CMN also increased significantly after sensor mounting.
- CMN of FST behaves differently from CMN of IST indicates the large CMN in FST may not come from larger capacitance.