

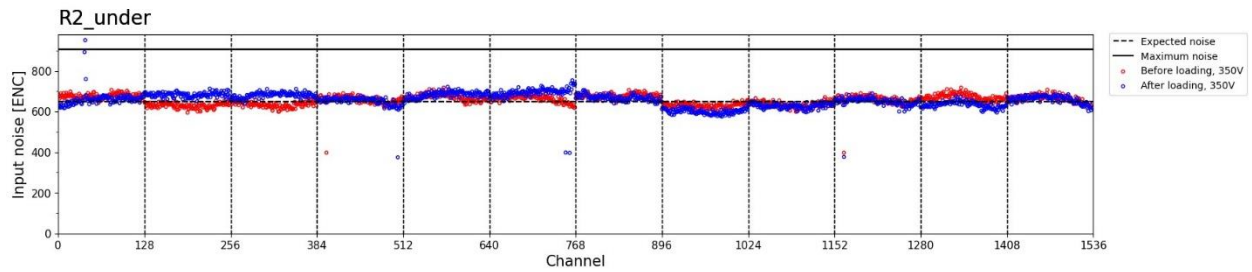
Supplemental material:

Figure 1: Input noise (units: equivalent noise charge or ENC) for a subset of the input channels of an end-cap module. The noise is compared before and after loading.

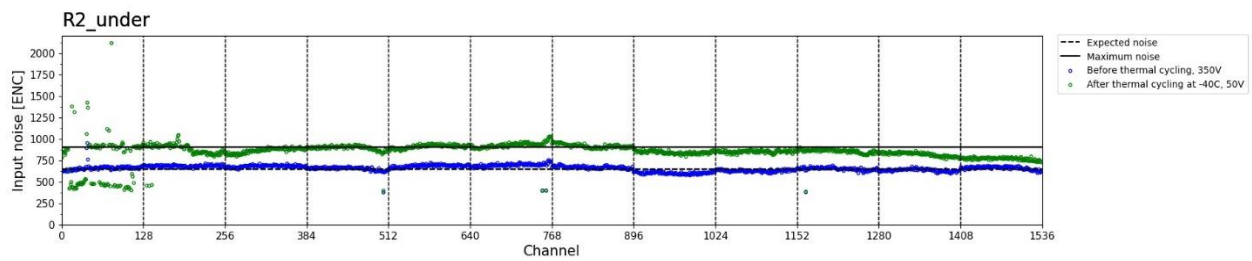


Figure 2: Input noise for a subset of the input channels of an end-cap module. The noise is compared before thermal cycling and after five thermal cycles at $-40\text{ }^{\circ}\text{C}$. The noise induced by sensor cracking is visible on the left-hand side of the module.