

Activity report & Plan

Y. Kwon

(Yonsei University)

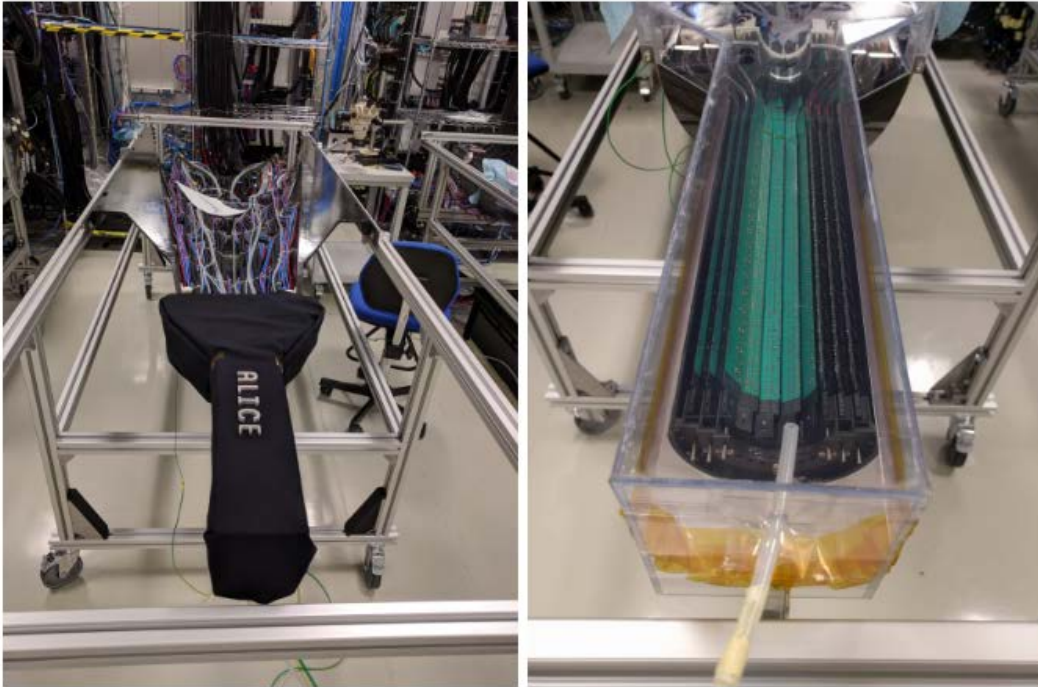
Man-power, 2020

- 1 faculty
- 1 postdoc (50% Yonsei + 50% CERN)
- 4 graduate students + 1 new student (from Navy)

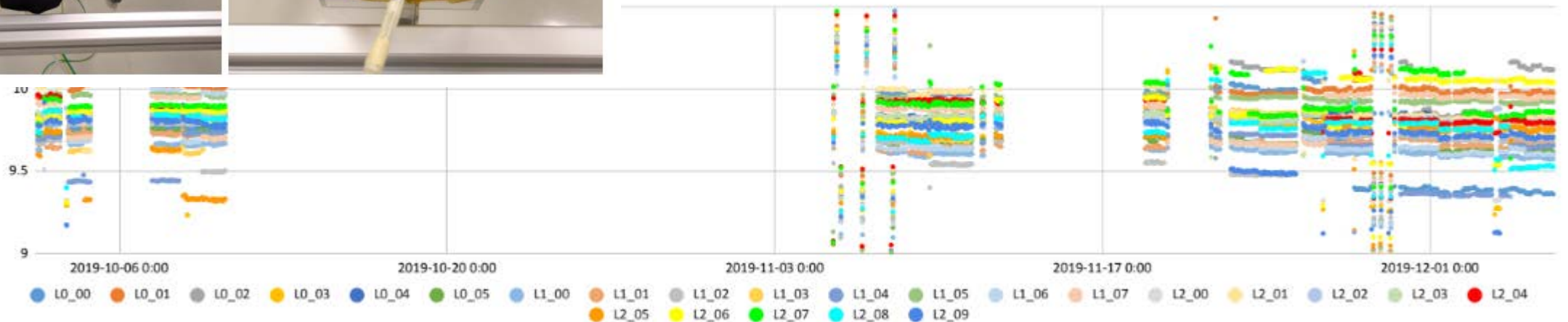
Plan

- ITS upgrade commissioning
- Artificial intelligence & Alignment
- New Si pixel sensor
- New detector for LS4

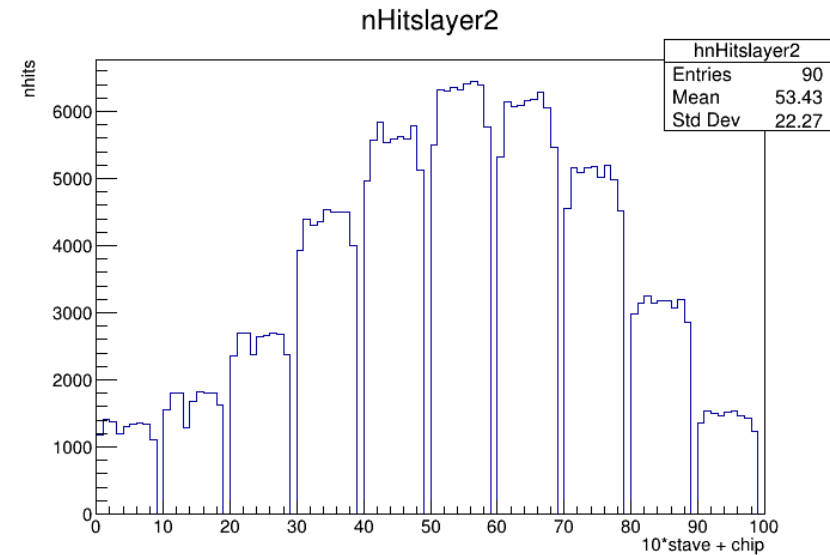
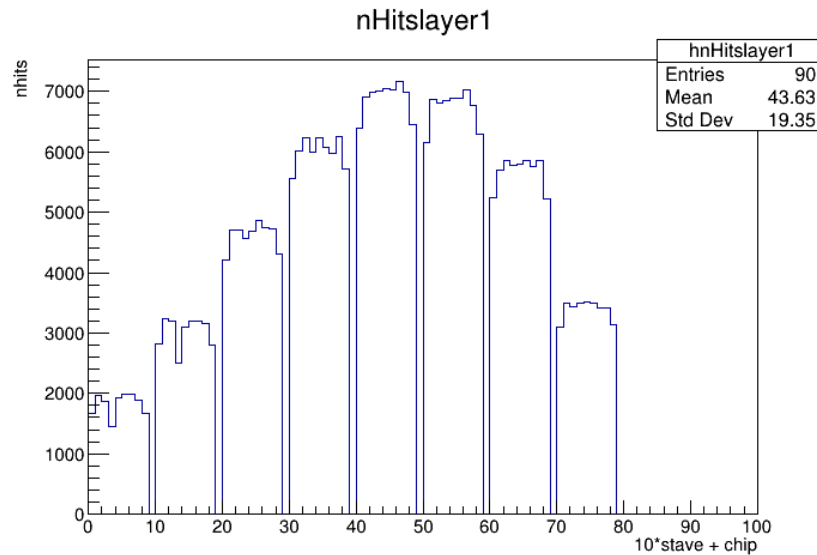
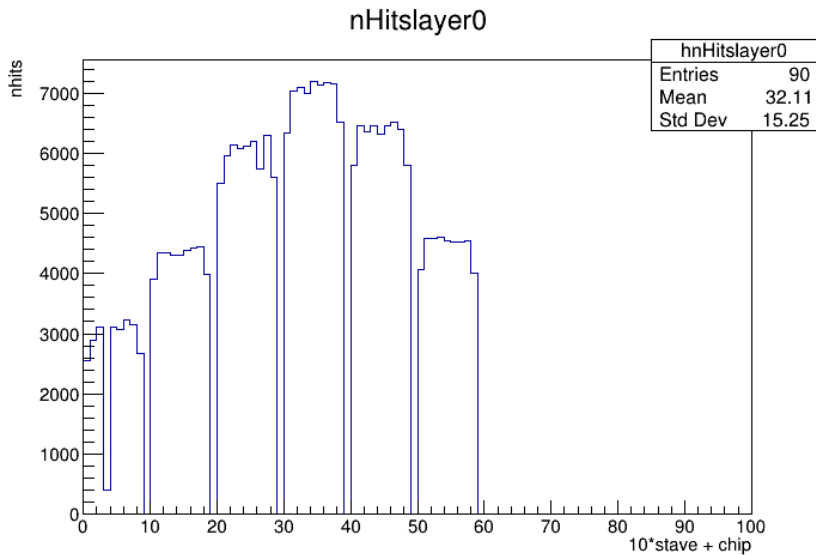
ITS upgrade commissioning



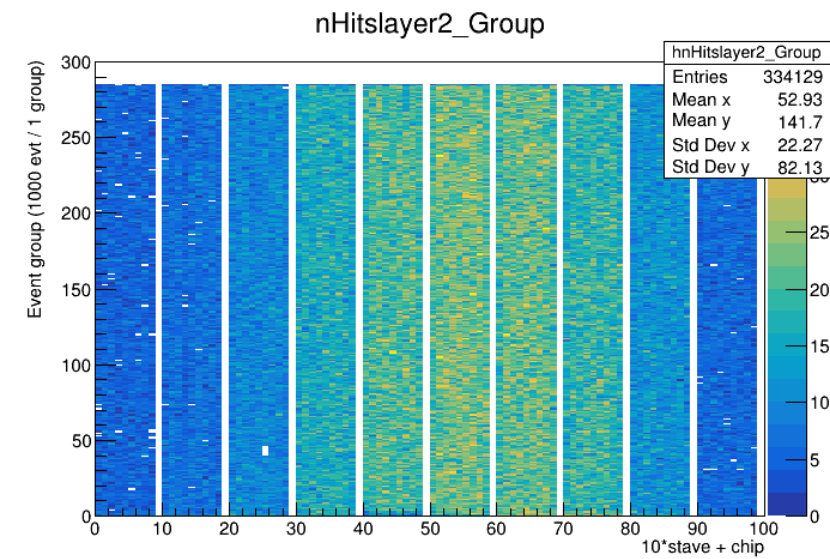
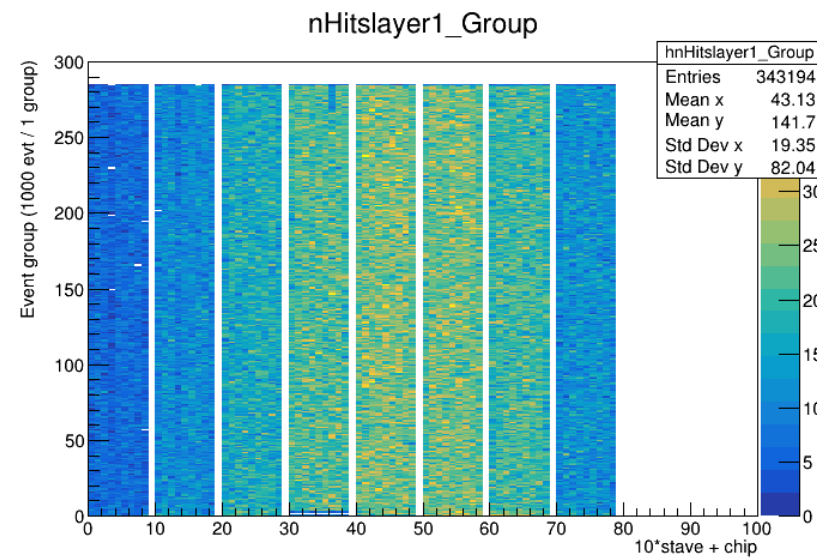
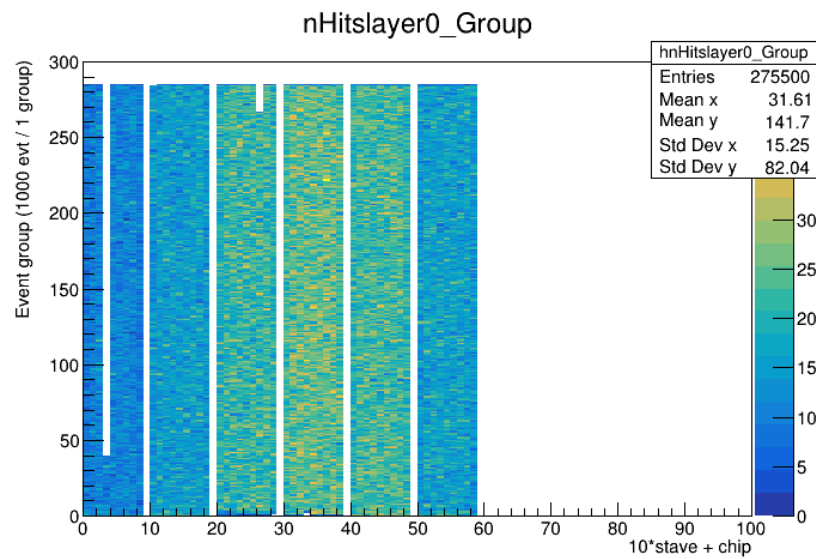
졸업논문 Λ_b ?



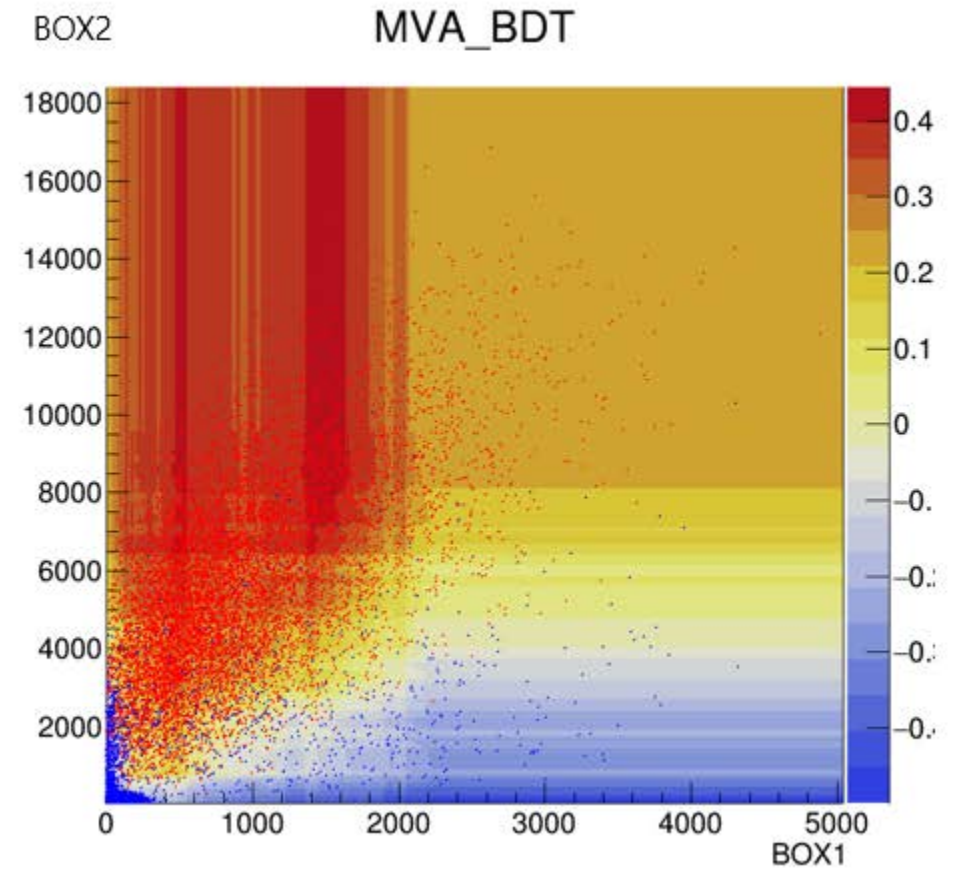
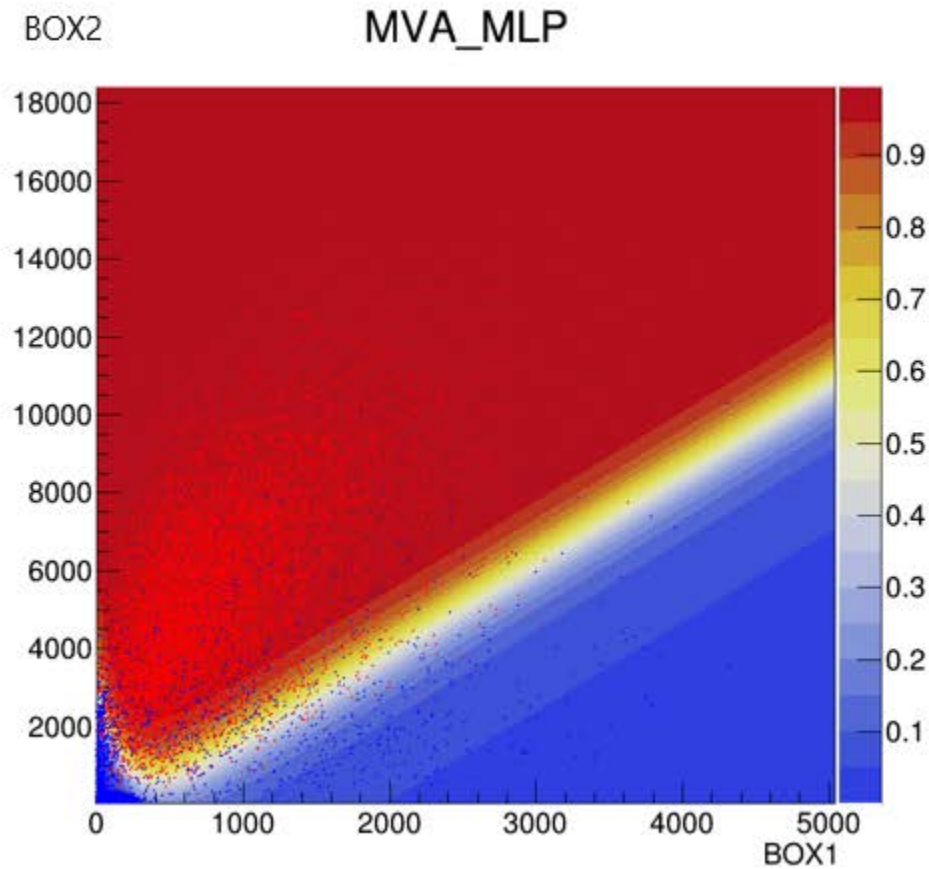
Hit density by chips



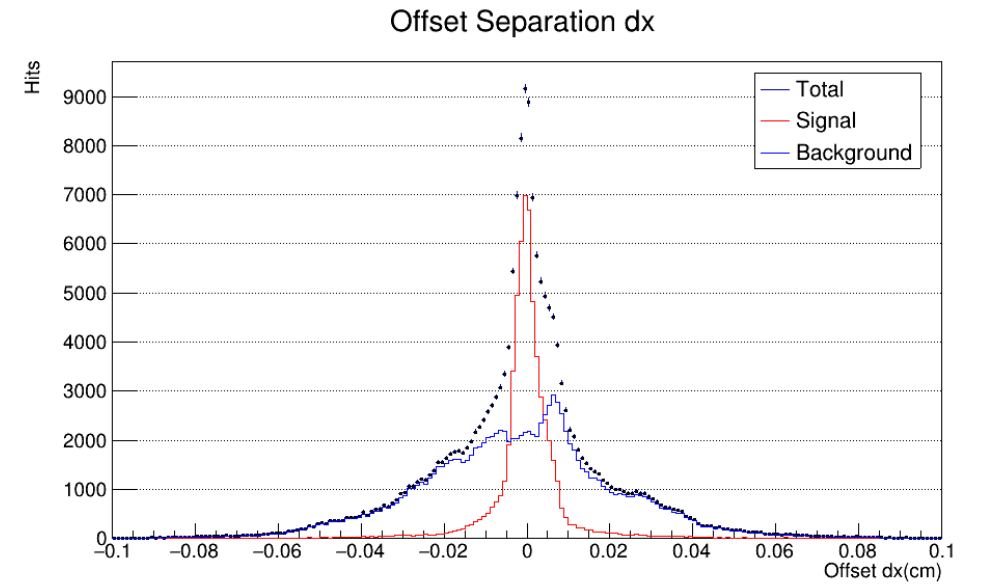
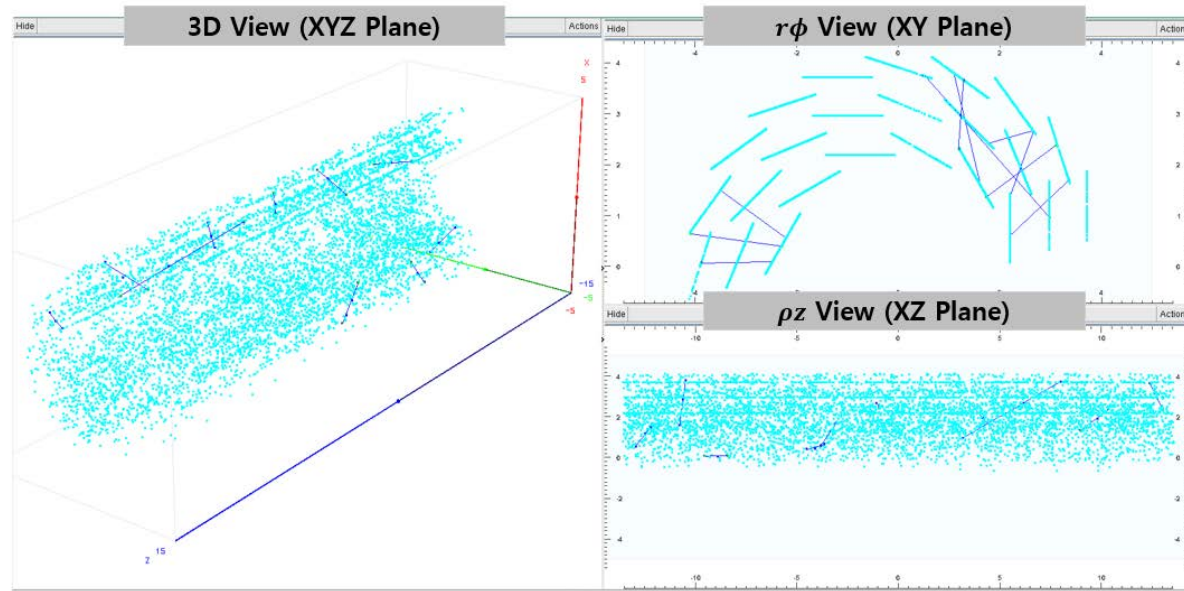
Groups of 1000 events vs Hit density by chips



Artificial intelligence & Alignment

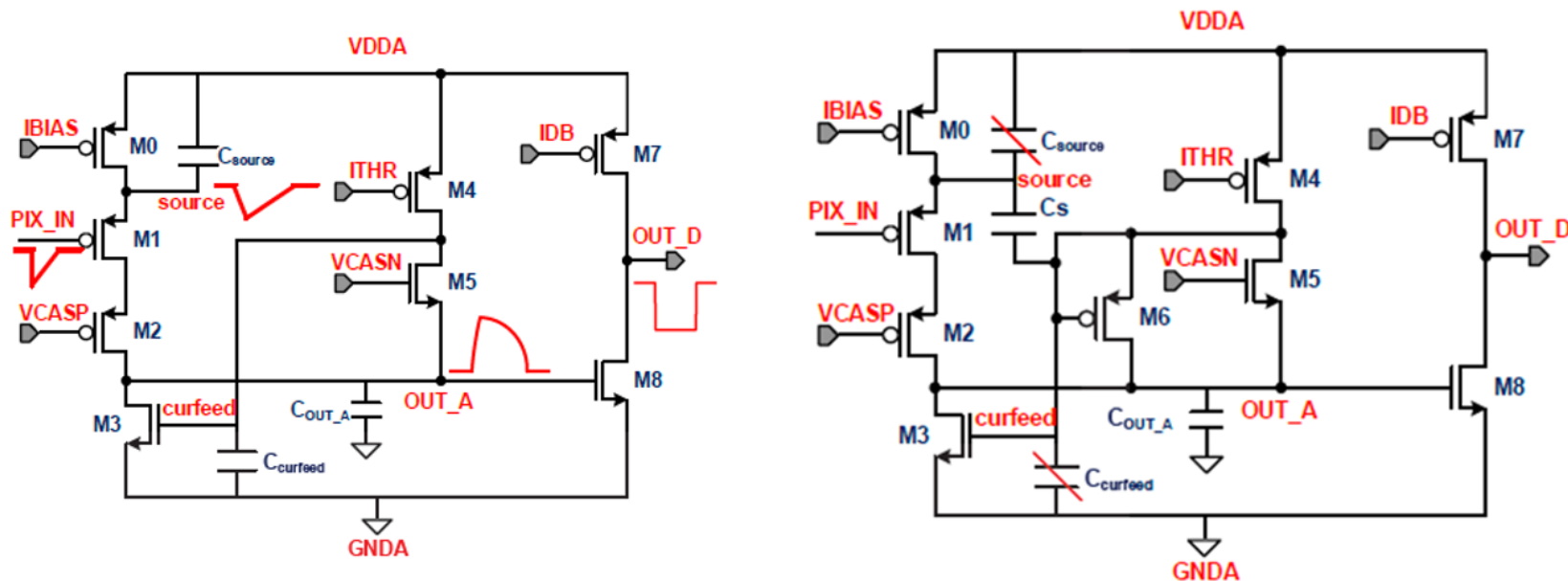


Artificial intelligence & Alignment



New Si pixel sensor

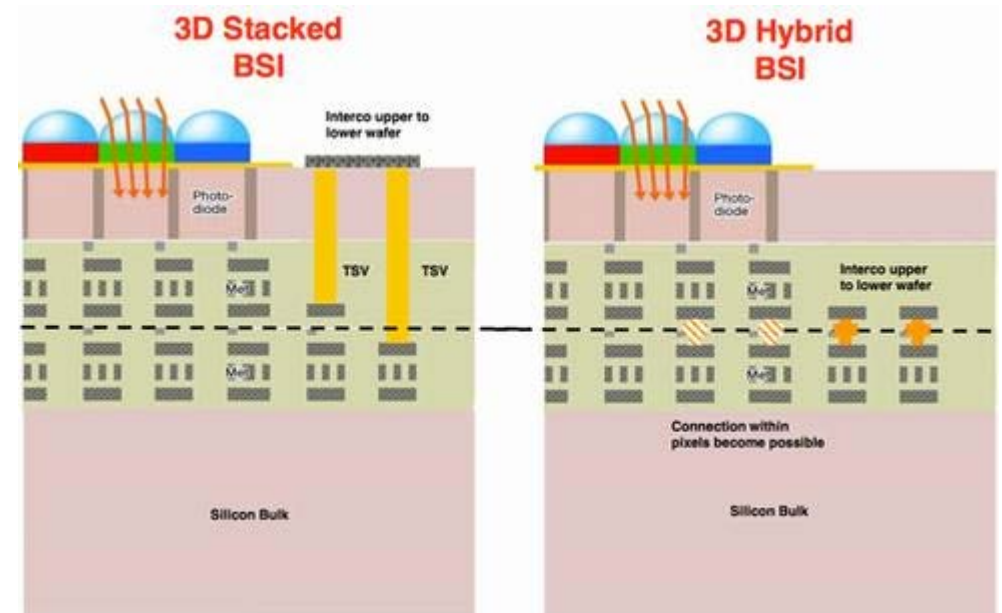
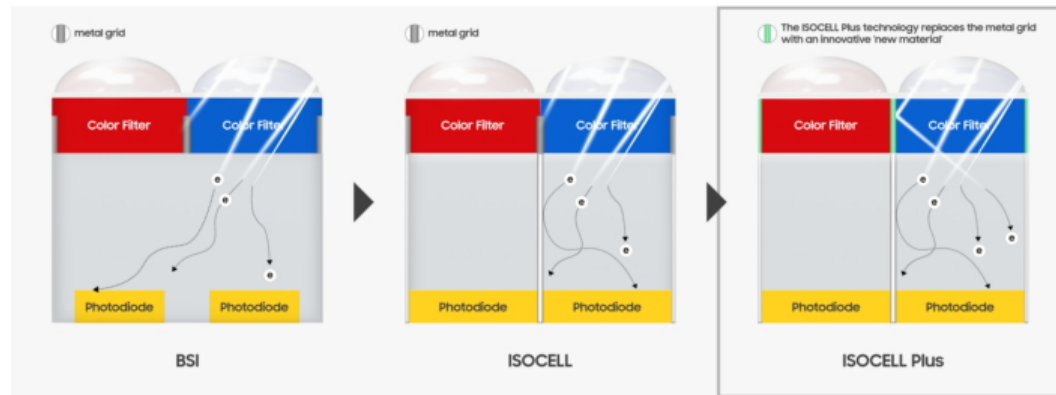
- Contribution towards the ITS3 upgrade
 - Mostly in synchronization with CERN R&D
 - Yield analysis for ALPIDE
 - Front-end optimization towards 10 MHz



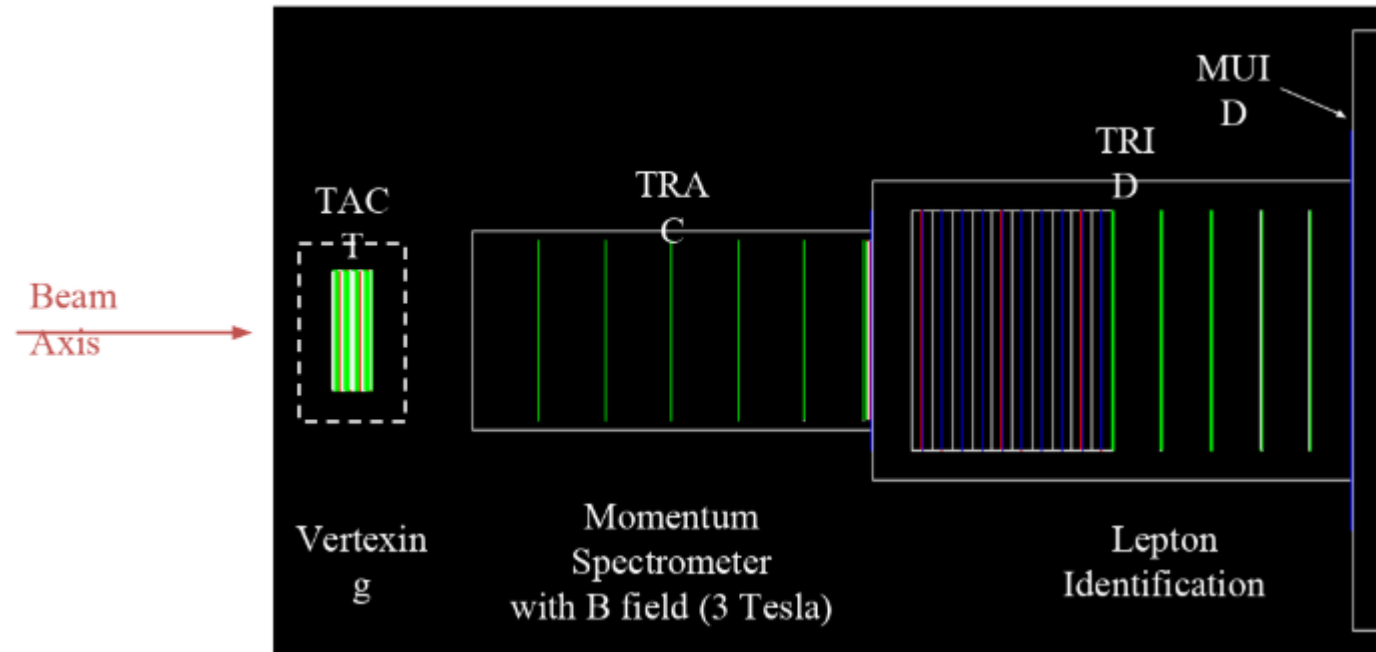
New Si pixel sensor

- Samsung foundry

How ISOCELL Plus improves light sensitivity and color fidelity



New detector for LS4



New detector for LS4

