

The background features a large, light blue watermark of the Yonsei University logo. The logo is circular with the text 'YONSEI UNIVERSITY' around the top and 'YONSEI' at the bottom. Inside the circle is a shield with a central circle, a book on the left, a torch on the right, and the year '1885' at the bottom.

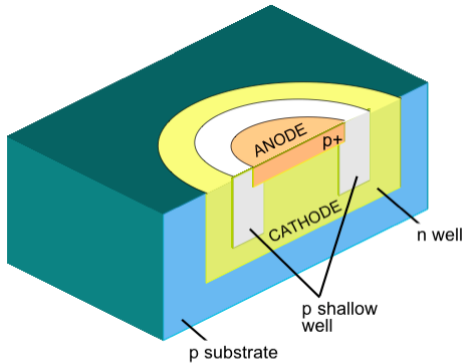
# 2023 Workshop

**Doyoon Eom**

**High-Speed Circuits & Systems Lab.  
Dept. of Electrical and Electronic Engineering  
Yonsei University**

# 2023-1 Works

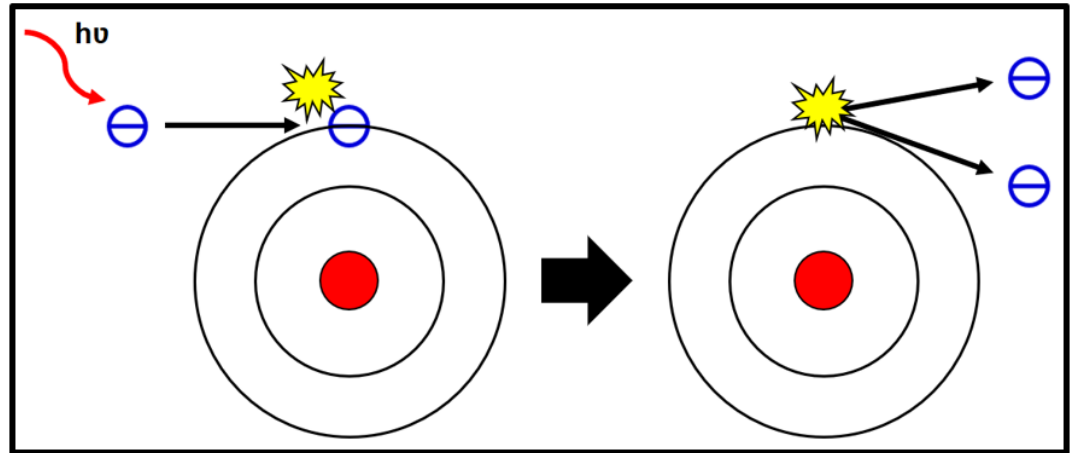
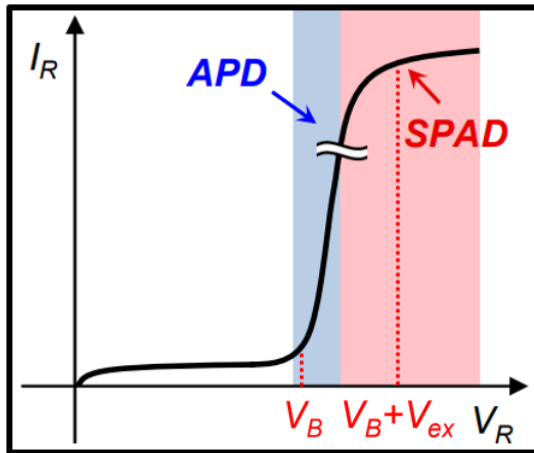
## SPAD



Autonomous Vehicle

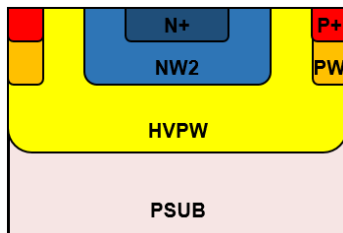
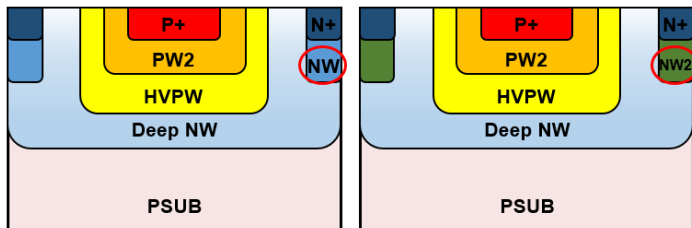
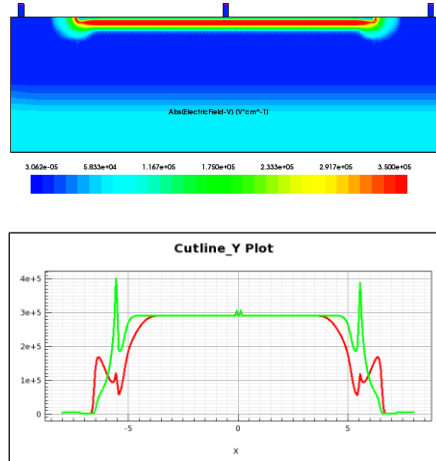
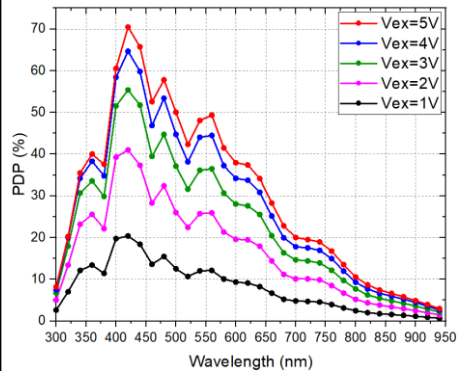


Smartphone



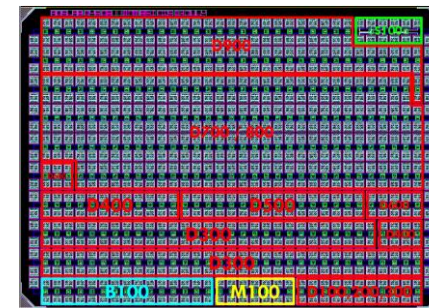
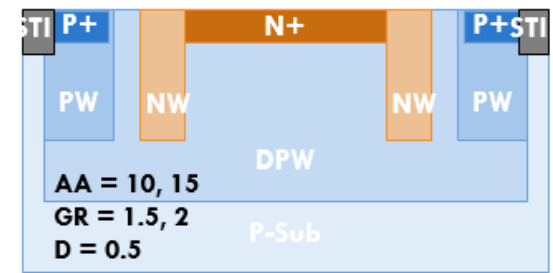
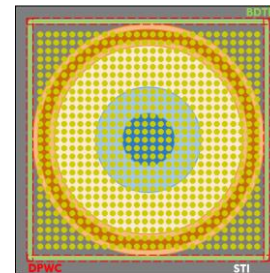
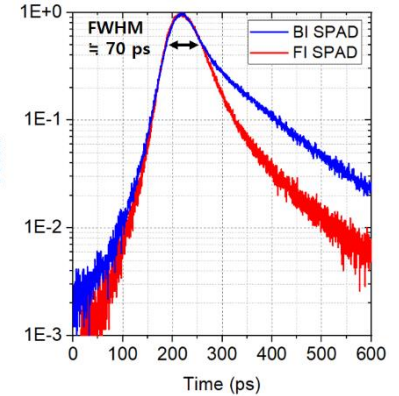
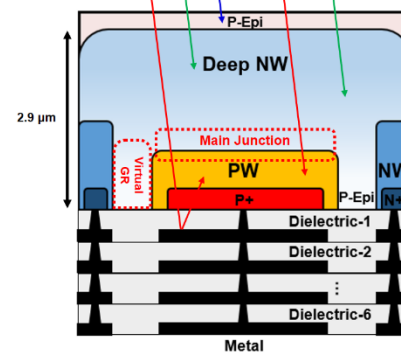
# 2023-1 Works

## GF 55nm



+ BSI

## DB 110nm BSI



Device :  
 PN + NP + Test structure  
 → 381 ea  
 (Tapeout : October)

# 2023-2 Plan

- **설계 및 측정**

- 설계 : GF 130nm BCD (Tapeout : October)
- 측정 : DB 110nm BSI (Fabout : October)



- **논문 계획**

- DB 110nm BSI → FSI / BSI comparison (Draft)
- GF 55nm FSI → Contact layer optimization (Draft)
- GF 55nm FSI → Bio application (In progress)
- GF 55nm FSI → Doping optimization (In progress)