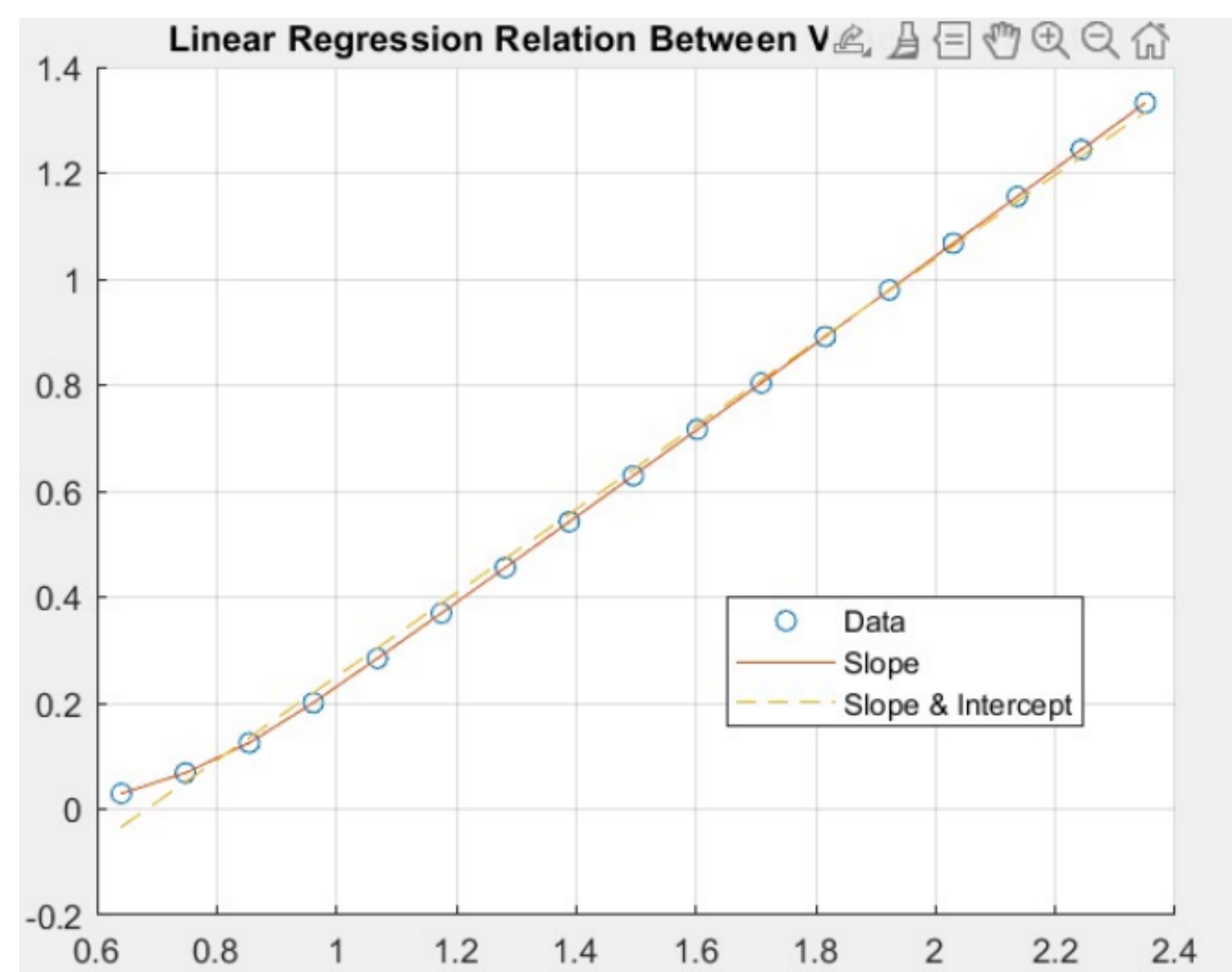
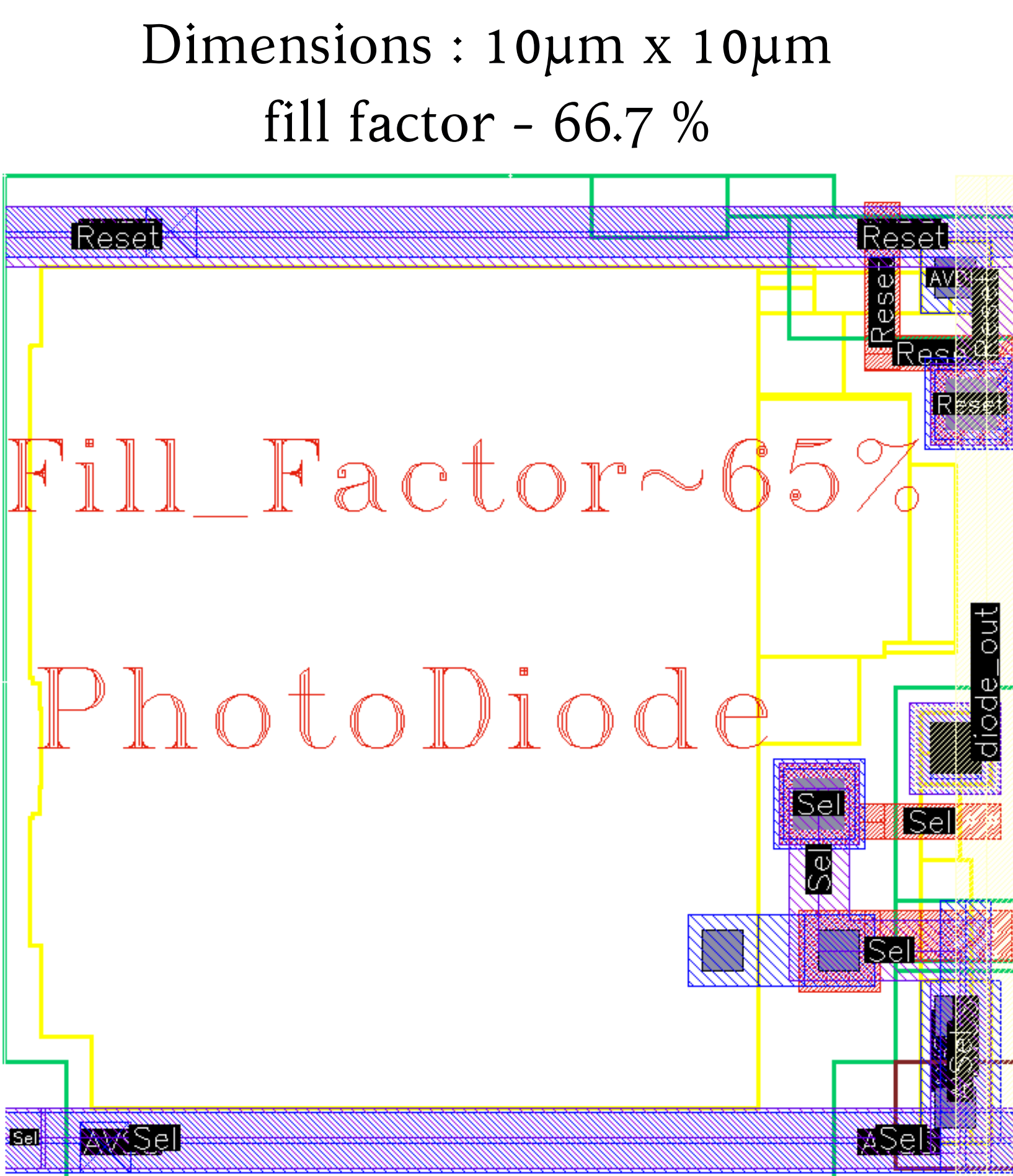




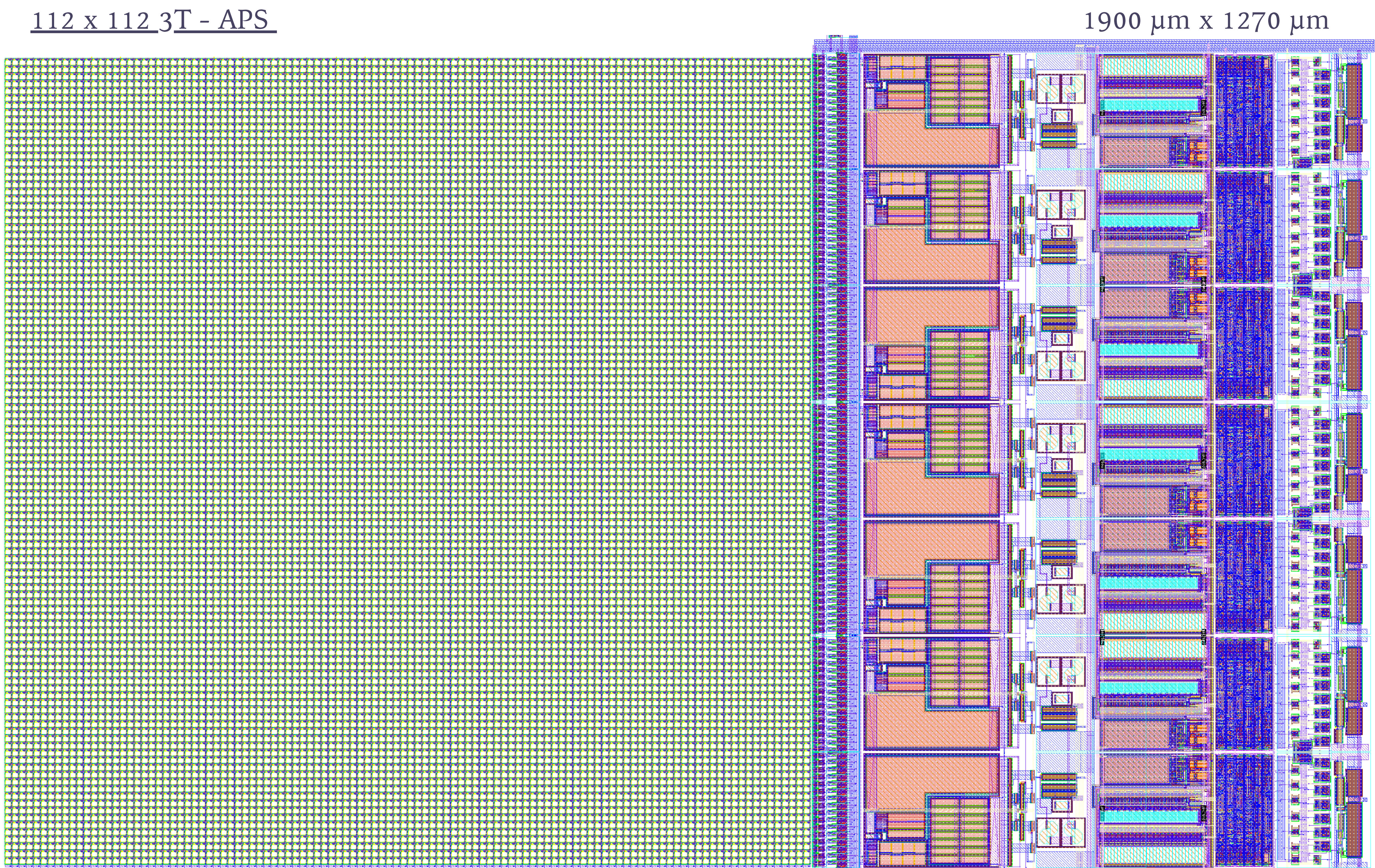
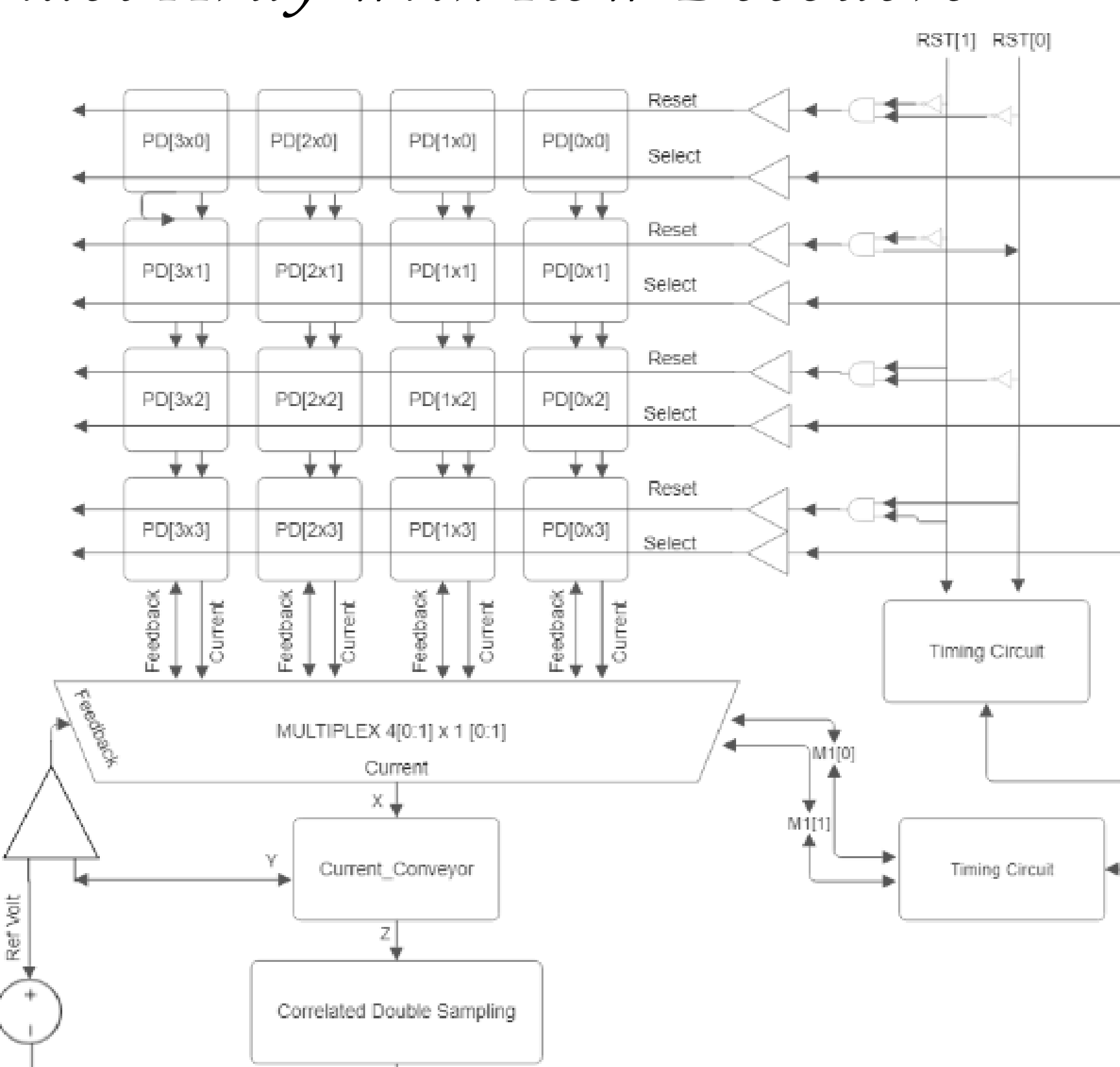
CURRENT MODE IMAGE-SENSOR

Southern Illinois University Edwardsville - Edwardsville , IL 62025

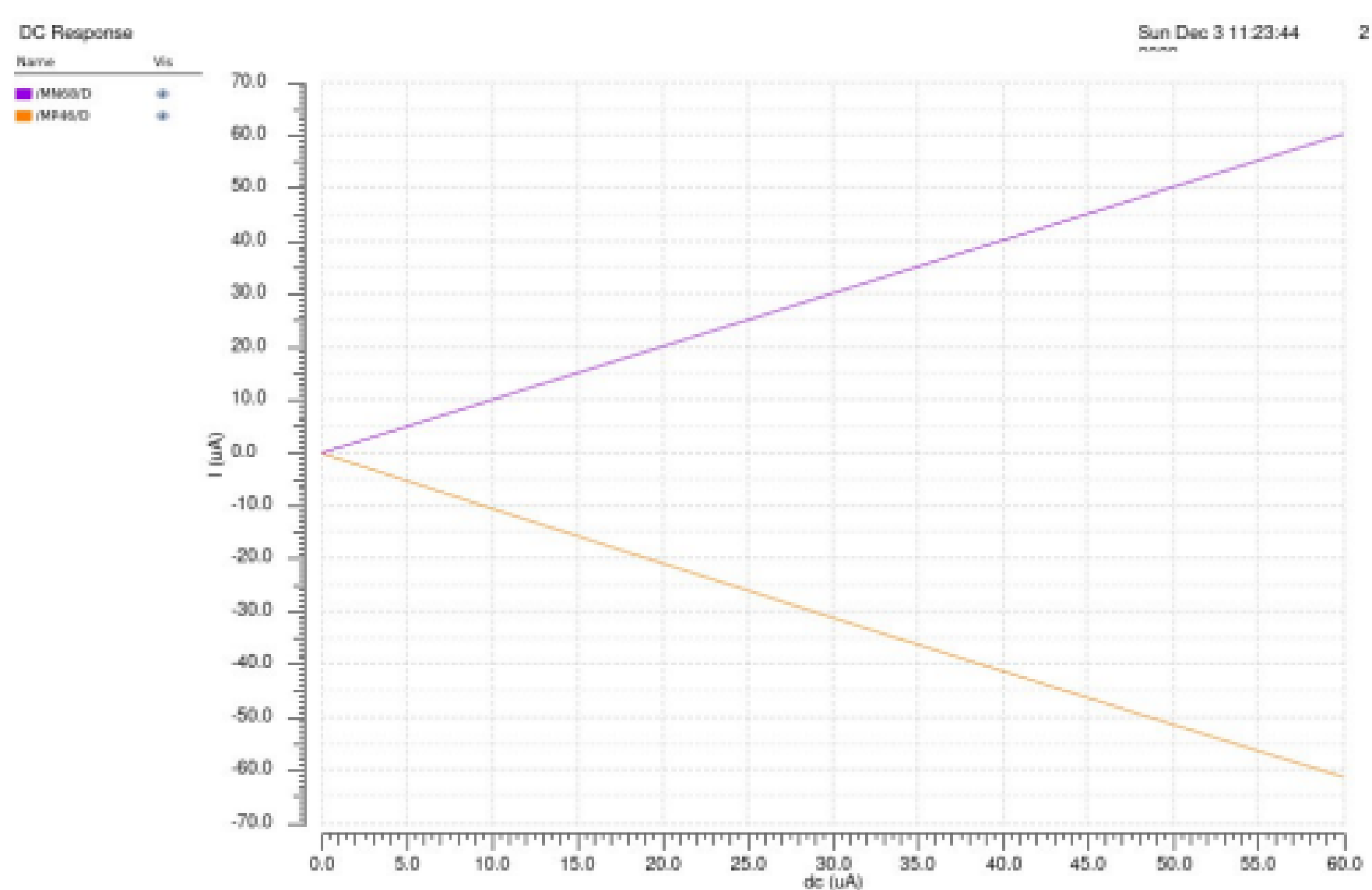
ADVISOR : DR.TIMOTHY YORK
STUDENT : KARTHIKEYA RAJKUMAR



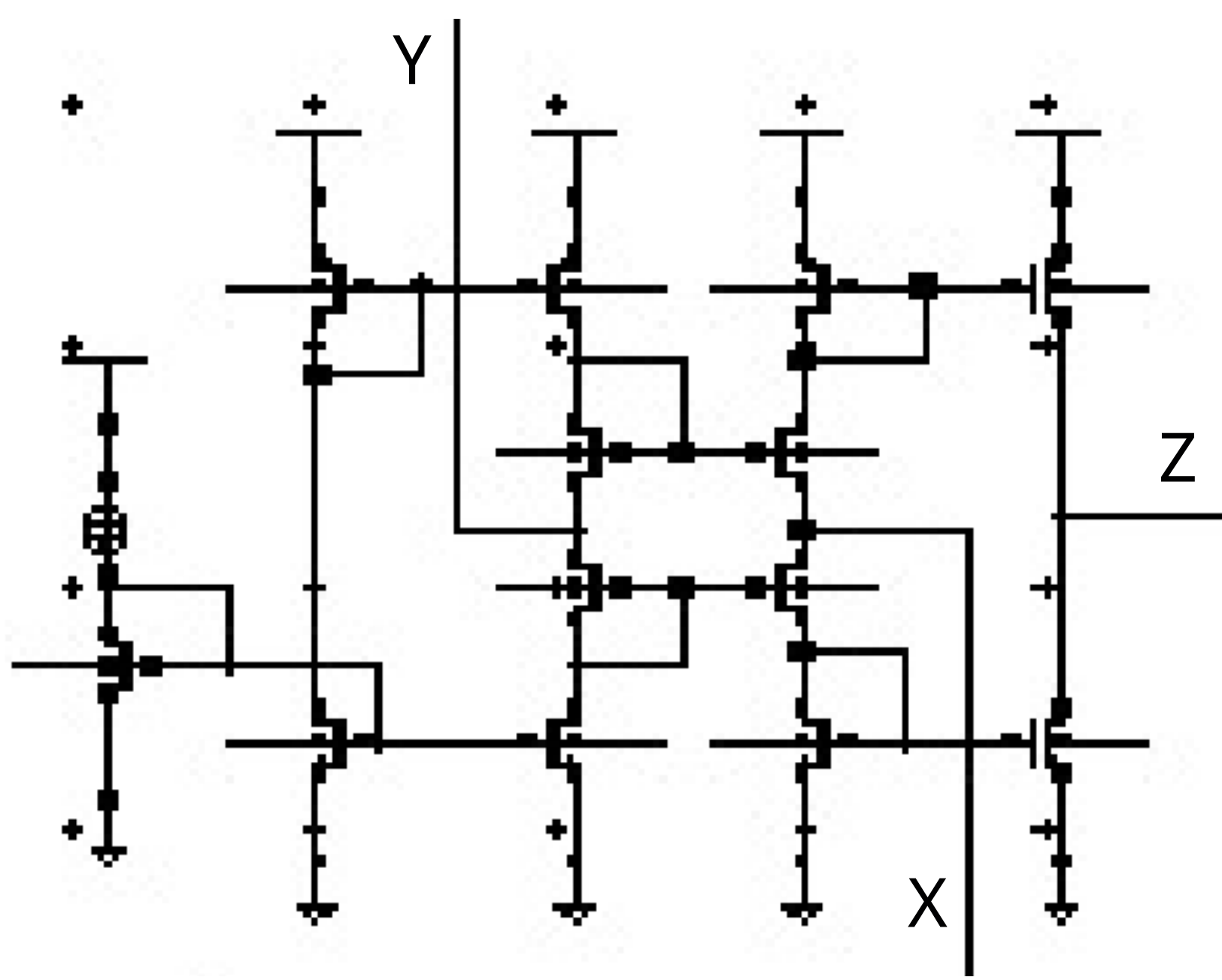
Pixel Array with Row Decoders



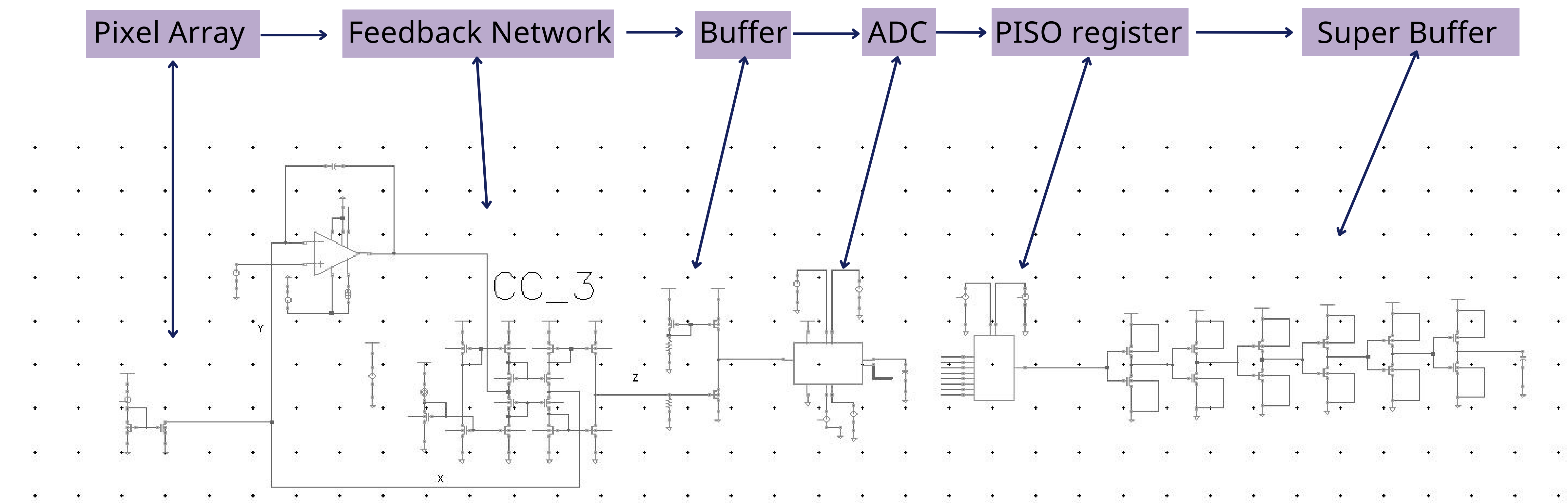
Current Conveyor with FeedBack :



```
>> current_mode_bunch_version_4
/MP46/D X      /MP46/D Y
-----
0              -4.0758e-11
1.2e-06        -1.268e-06
2.4e-06        -2.5293e-06
3.6e-06        -3.7876e-06
4.8e-06        -5.0435e-06
0.9999
```



Circuit Flow



Specifications

Resolution: $112 \times 112 = 12544$ pixels
Pixel array : 1.12 mm x 1.12 mm
Sensor Size : 1.90 mm x 1.27 mm
FPS - 60
Frame size: 0.012544 MB
Well Capacity : 28,725
SNR : 169.41
Dynamic Range : 12.49 (Theoretical)
SNR in decibels (dB) : 44.58 dB.