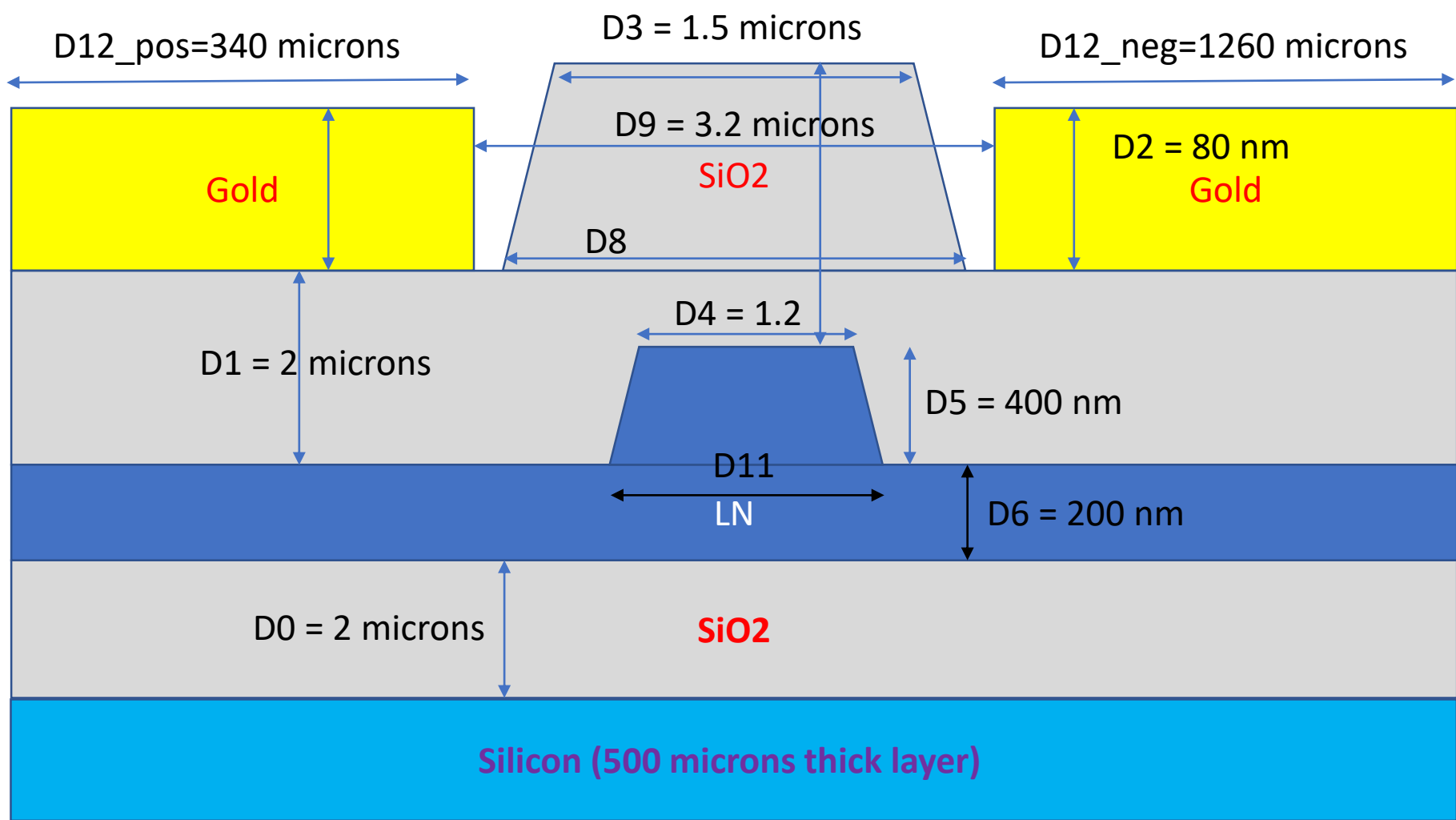
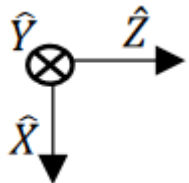


# LNOI Modulator

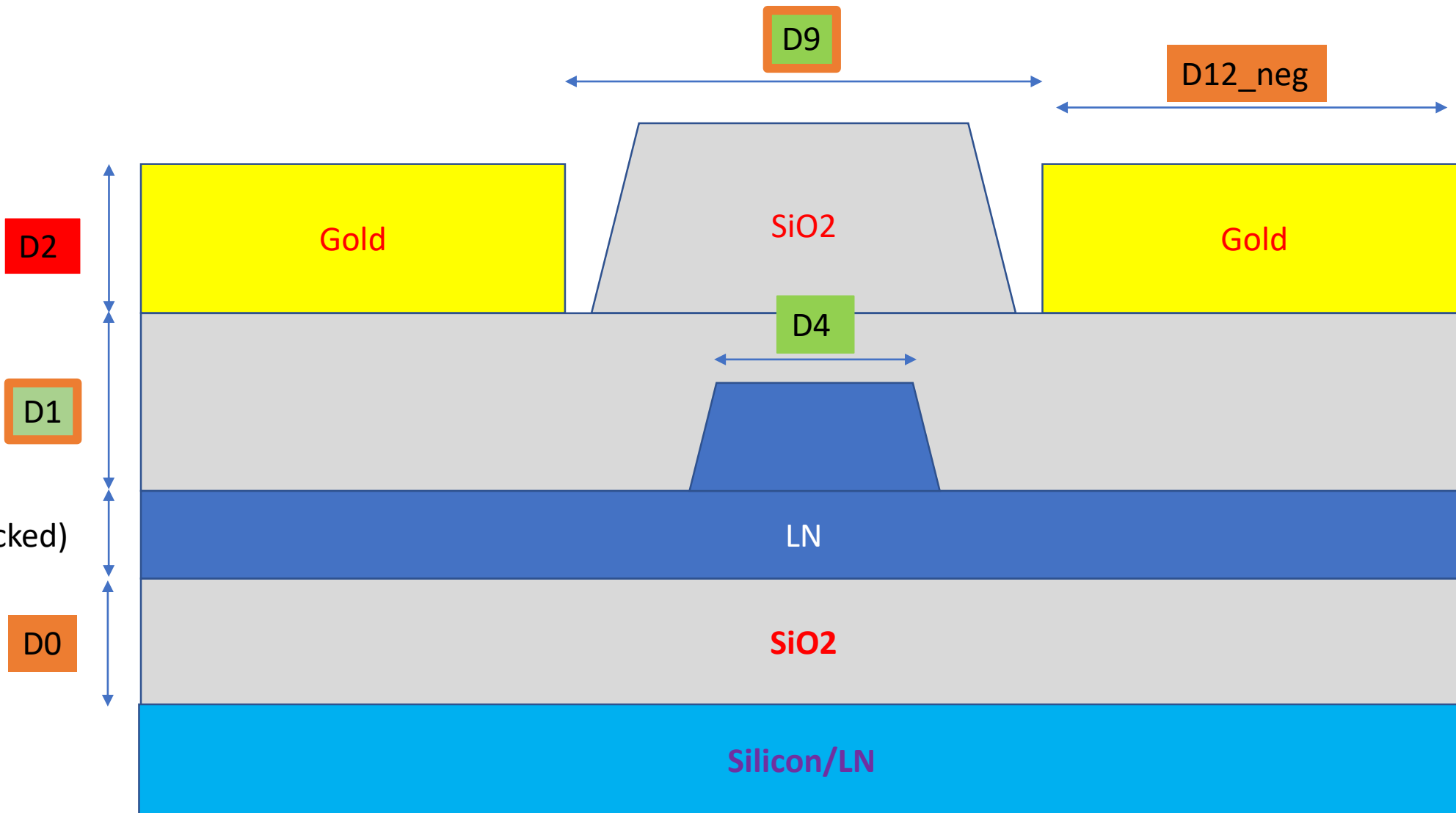
$D8 = 1.5 + 2 \cdot 0.400 \cdot \cot(72) = 1.5 + 0.26 = 1.76 \text{ microns}$

$D11 = 1.2 + 2 \cdot 0.400 \cdot \cot(72) = 1.2 + 0.26 = 1.46 \text{ microns}$



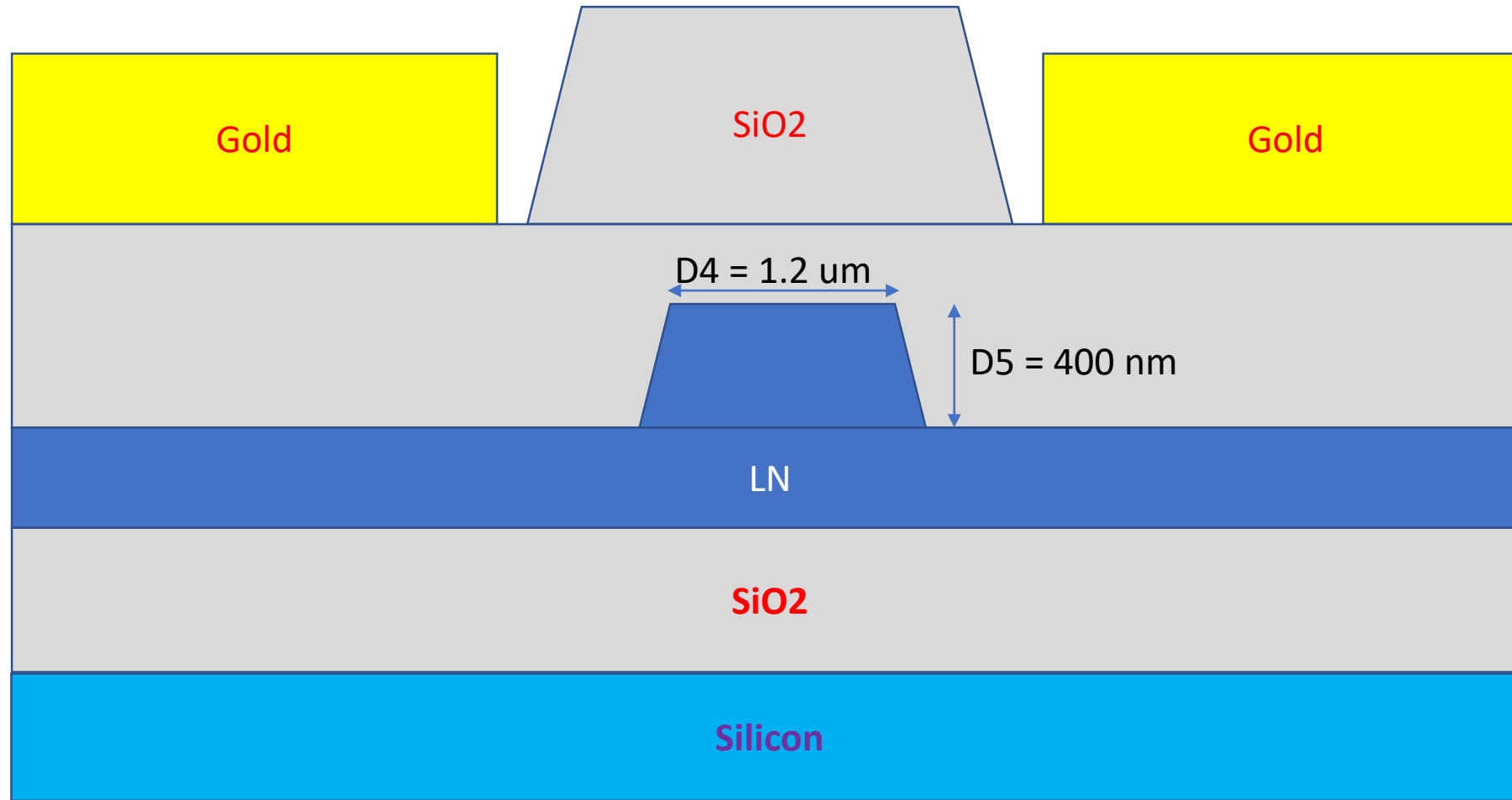


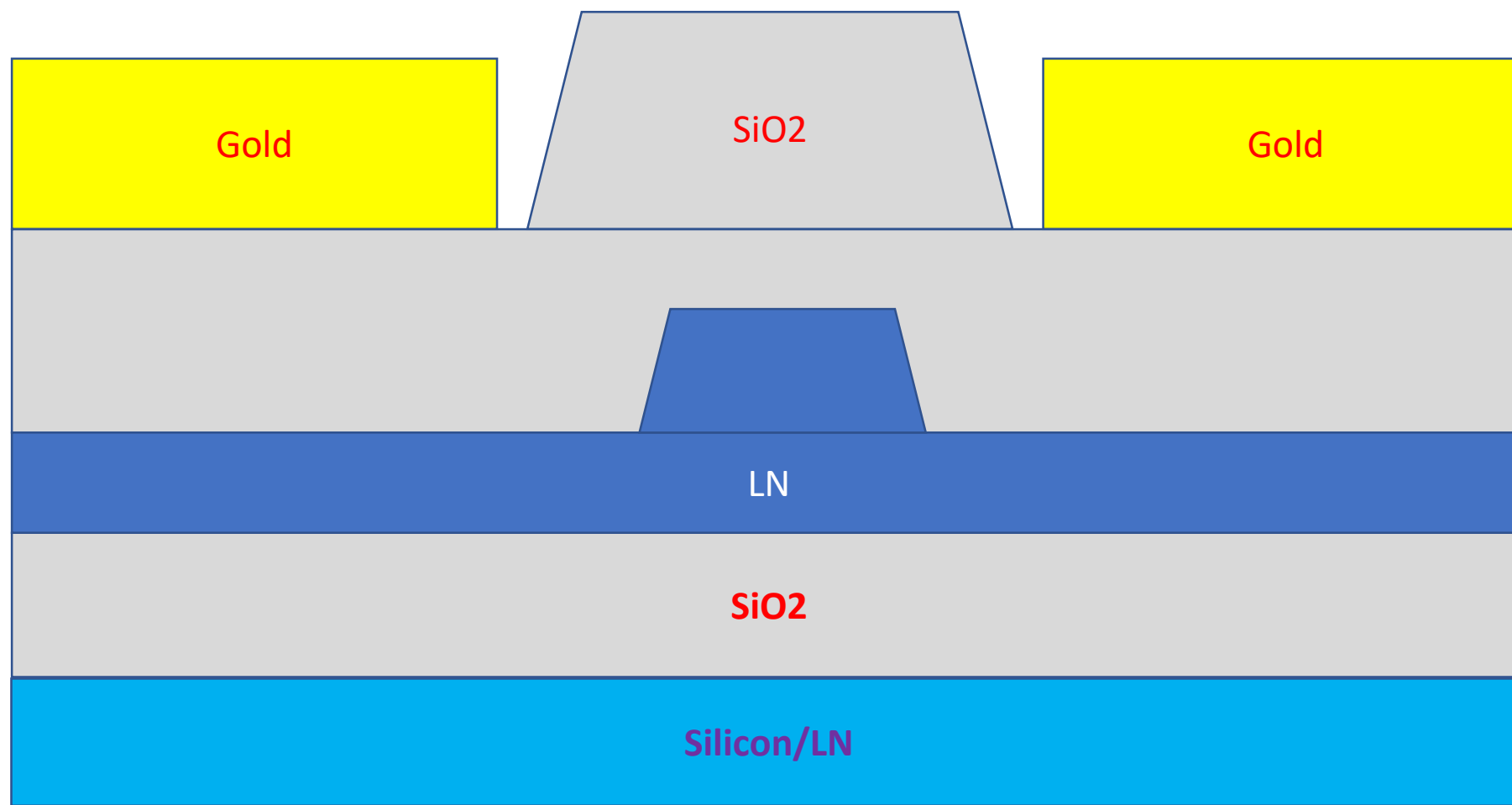
D6 (fabrication locked)

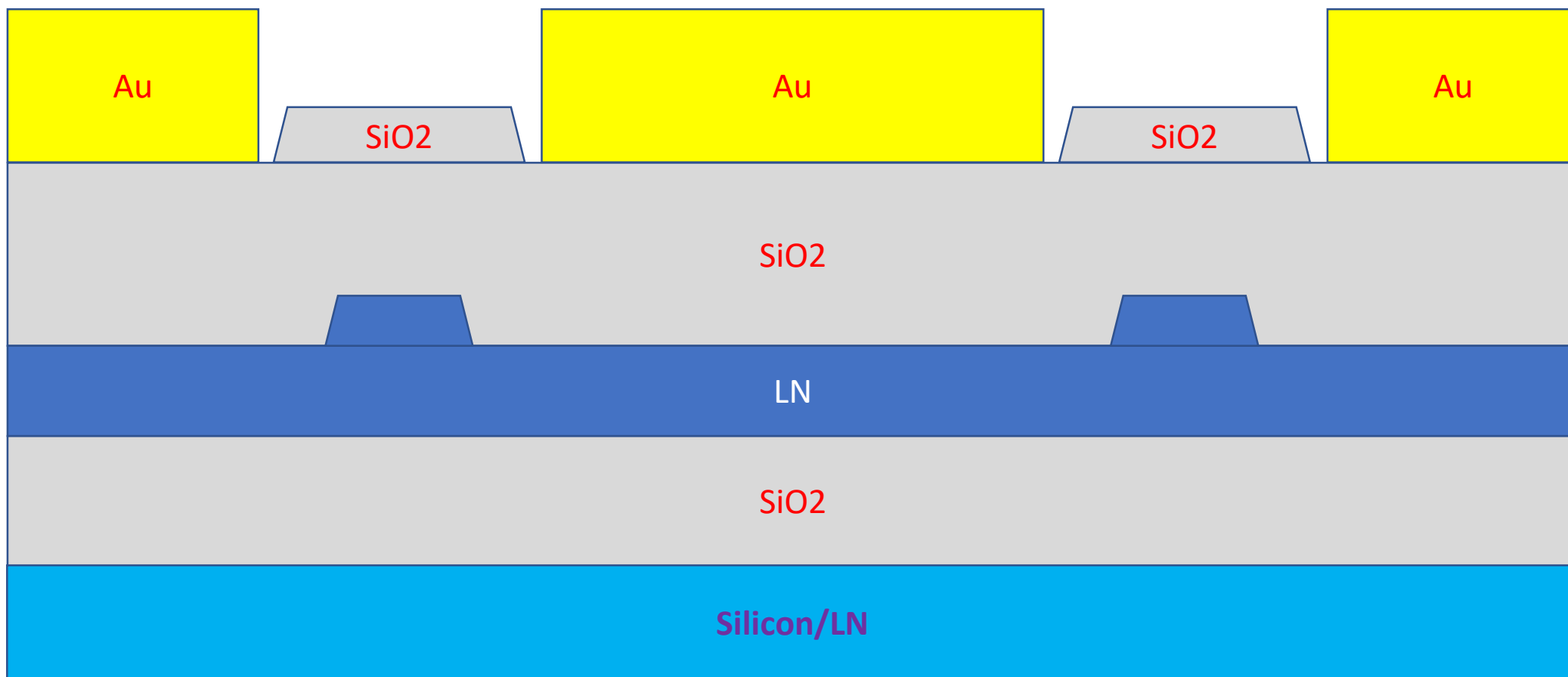


$$D8 = 1.5 + 2 \cdot 0.400 \cdot \cot(72) = 1.5 + 0.26 = 1.76 \text{ microns}$$

$$D11 = 1.2 + 2 \cdot 0.400 \cdot \cot(72) = 1.2 + 0.26 = 1.46 \text{ microns}$$

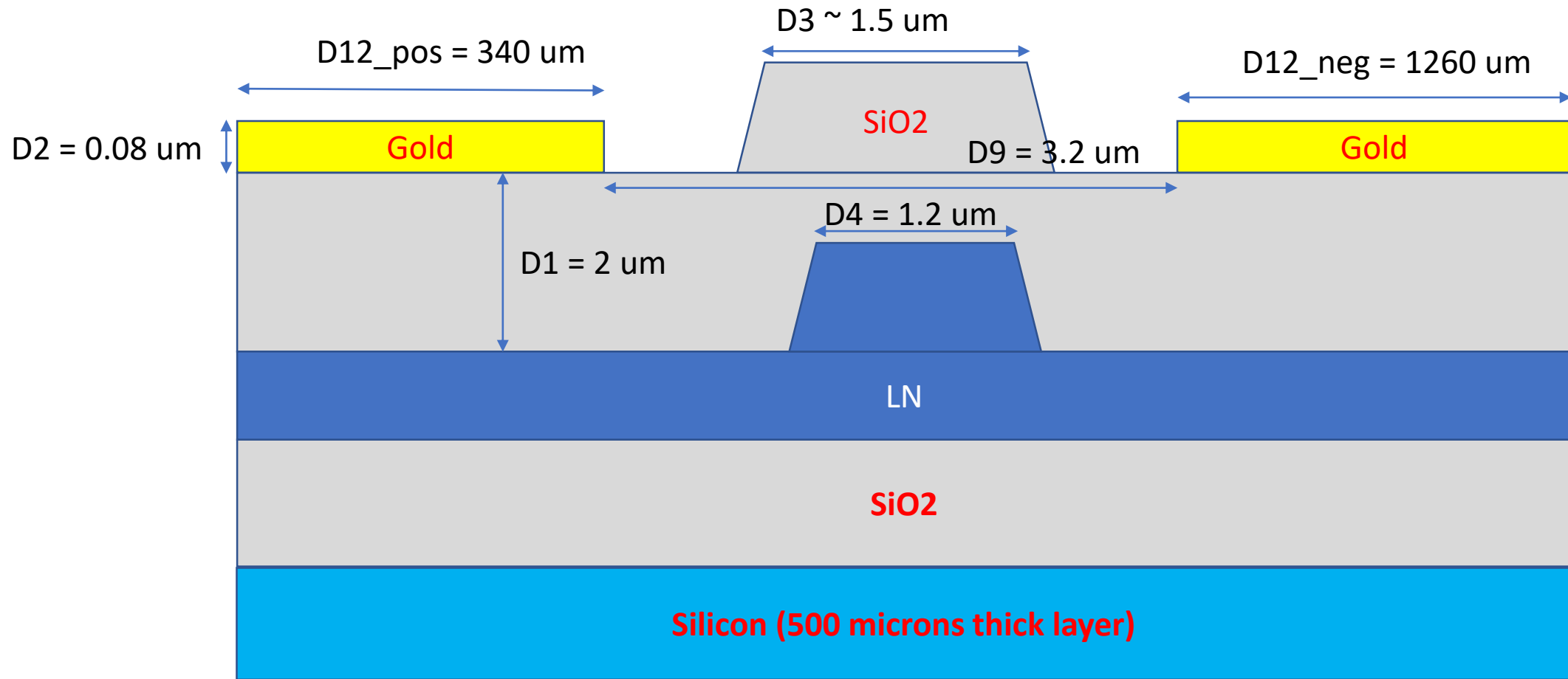




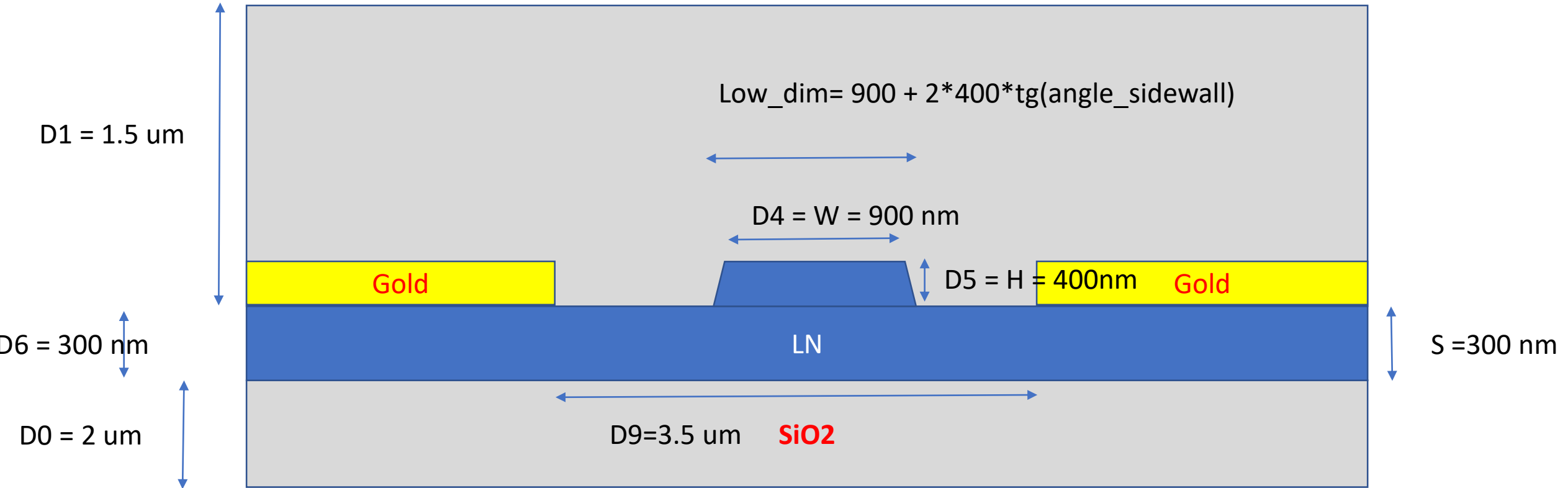


Cross-sectional layout of the modulator

$$D8 = 1.5 + 2 * 0.400 * \cot(72) = 1.5 + 0.26 = 1.76 \text{ microns}$$



# Nanophotonic lithium niobate electro-optic modulators (PAPER)





CLAIM:

- $V_{pi}$ : 1.8 V\*cm (looks like it's an experimental result)

Assumptions:

- No sidewall angle (assumed  $56.88^\circ$ ) (approx from the paper sketch)
- $R_{33}$  assume 30.9
- $\lambda_0 = 1480\text{-}1580\text{nm}$

