

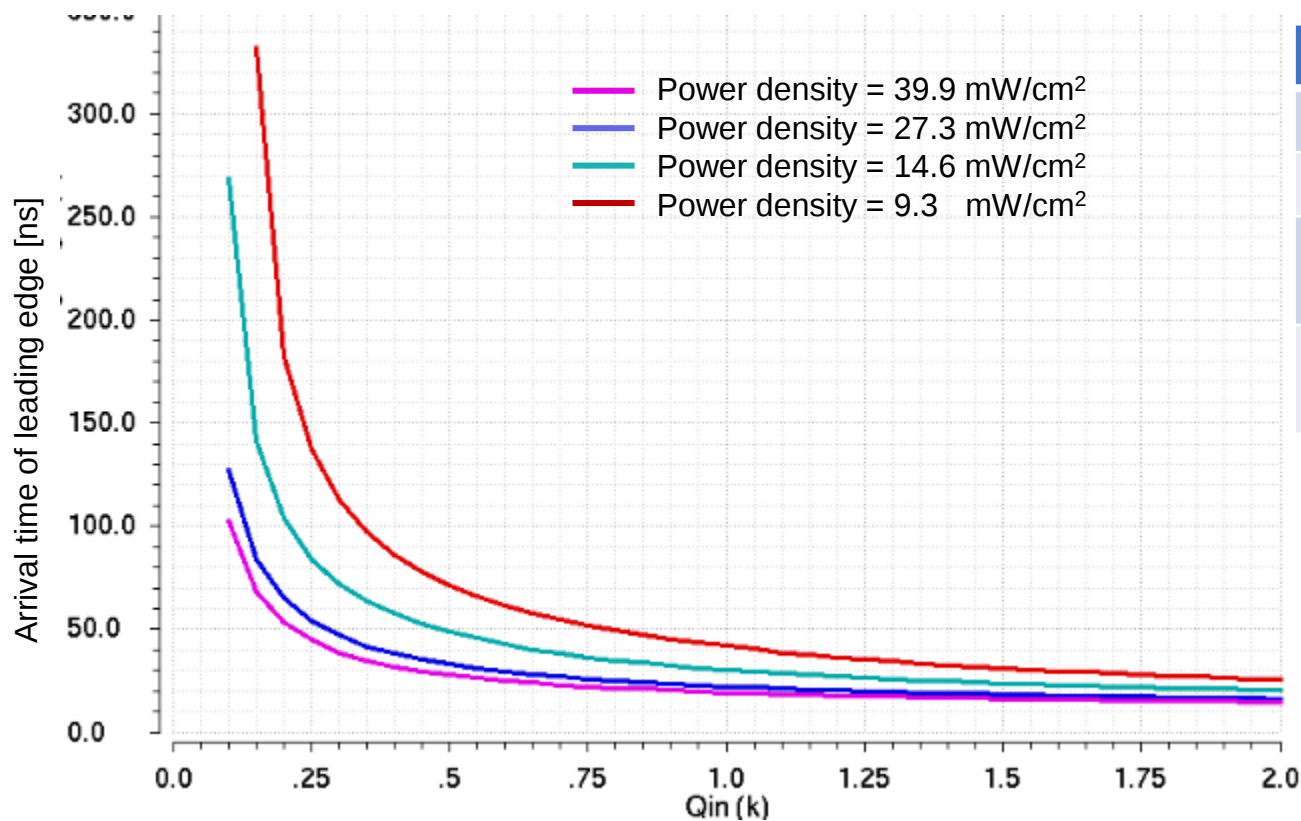
Front-end design

张颖

2026-8-27

FE功耗 vs 速度初步评估 (低功耗版)

Simulation of leading edge vs. charge



Power density [mW/cm ²]	Time-walk [ns]	Threshold [e ⁻]
39.9	87	100
27.3	110	100
14.6	248 145	100 140
9.3	304 244	150 170

Time-walk: Time difference between the arrival time for Q2000 e⁻ and Q_{th}

Pixel area: 16 x 30 μm²