

*A high speed phase locked loop of a pixel readout ASIC for the CSR external-target experiment*

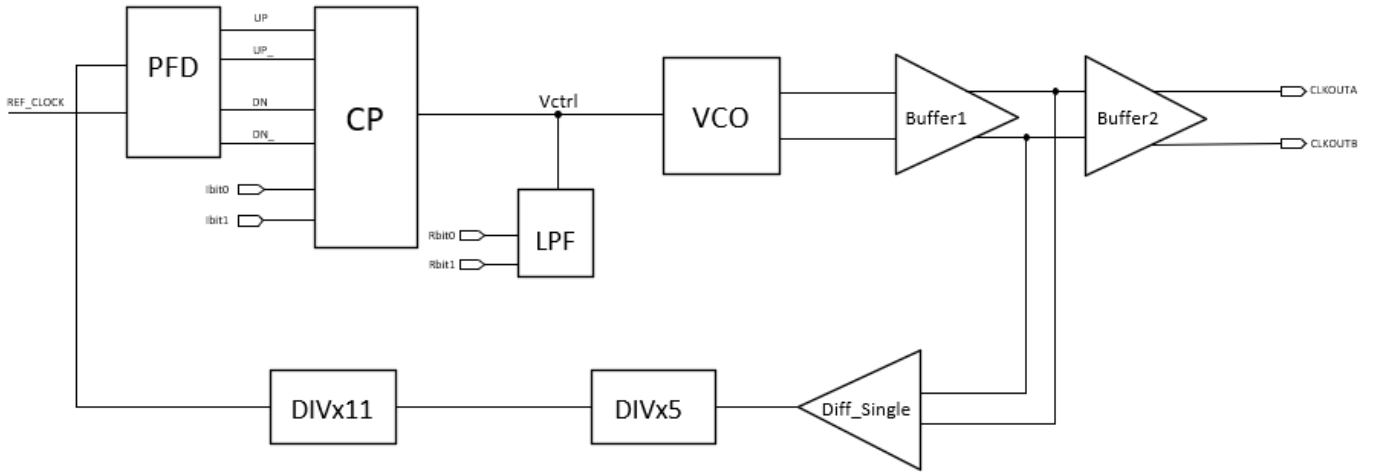


figure. 1. Block diagram of phase locked loop

A high speed phase locked loop of a pixel readout ASIC for the CSR external-target experiment

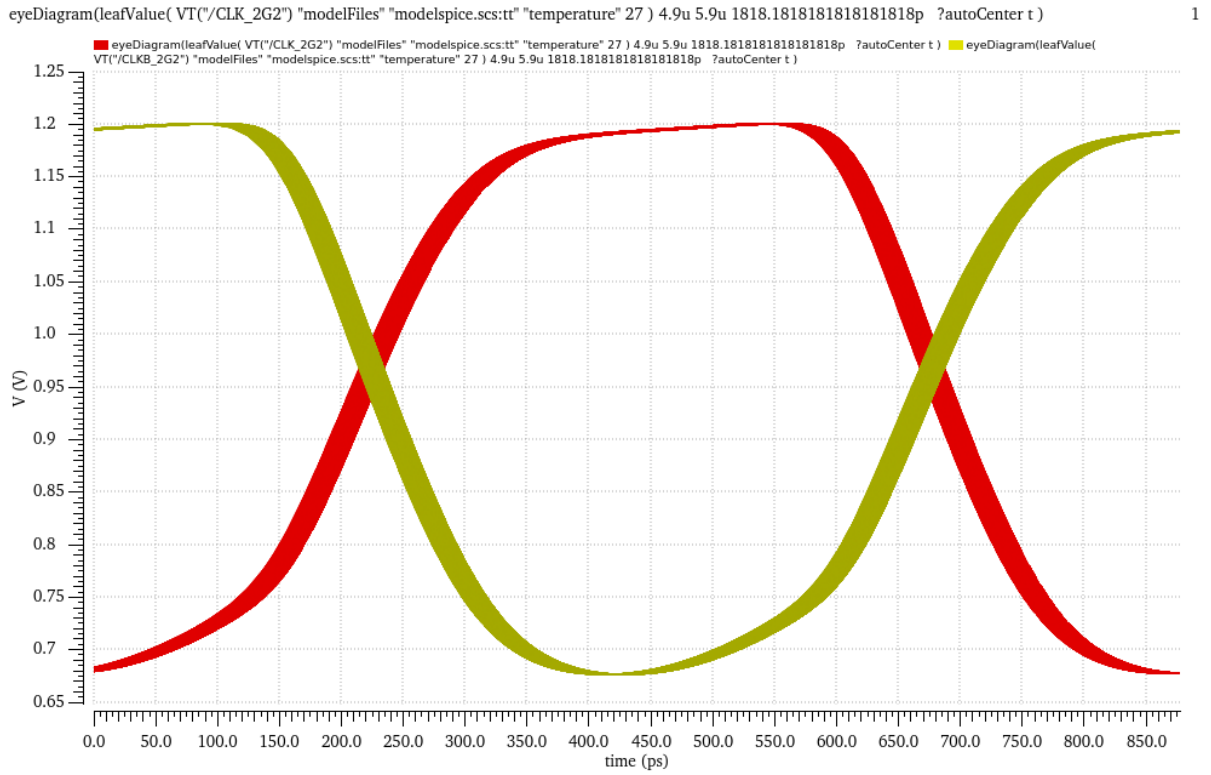


figure. 2. Post-simulation: Input 20MHz clock output 1.1GHz clock jitter is 20ps

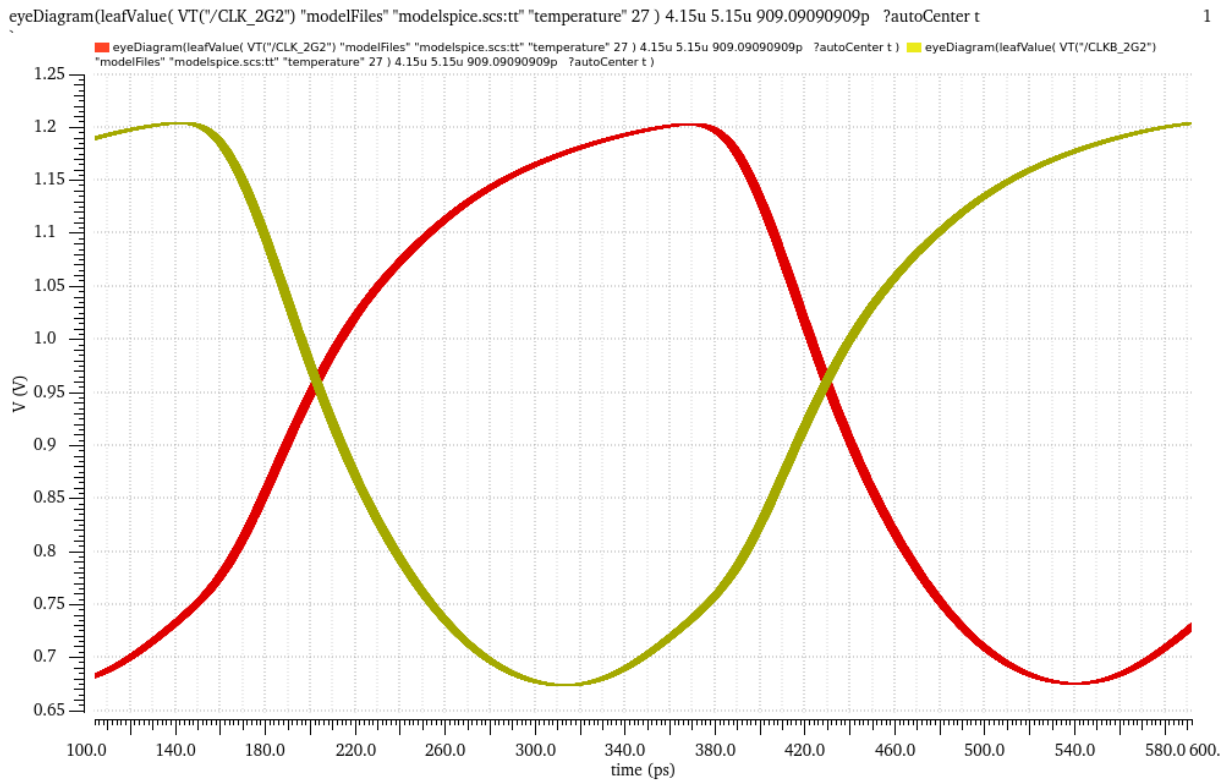


figure. 3. Post-simulation: Input 40MHz clock output 2.2GHz clock jitter is 3.7ps



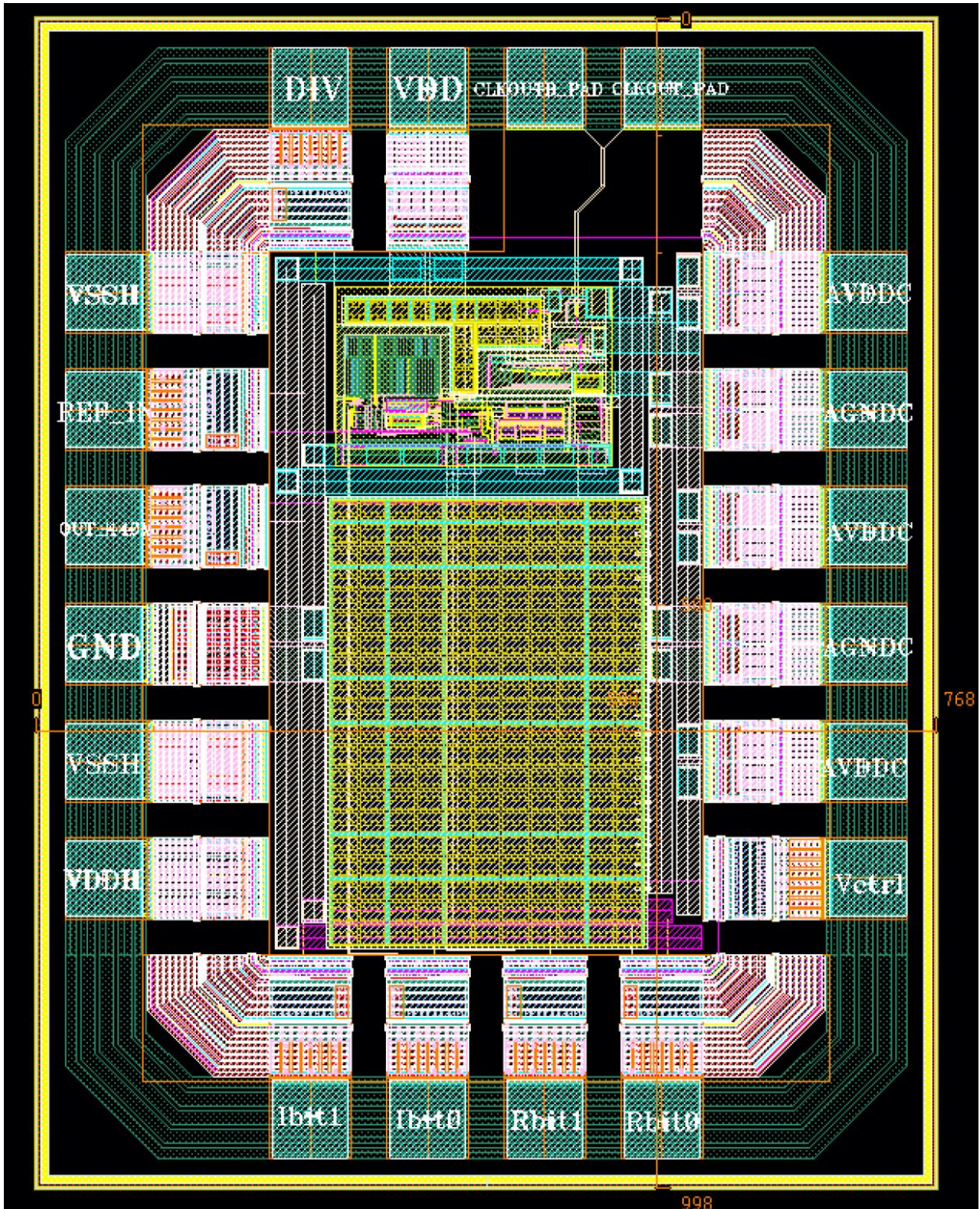


figure. 4. Layout of the pll, Area 1×0.8mm



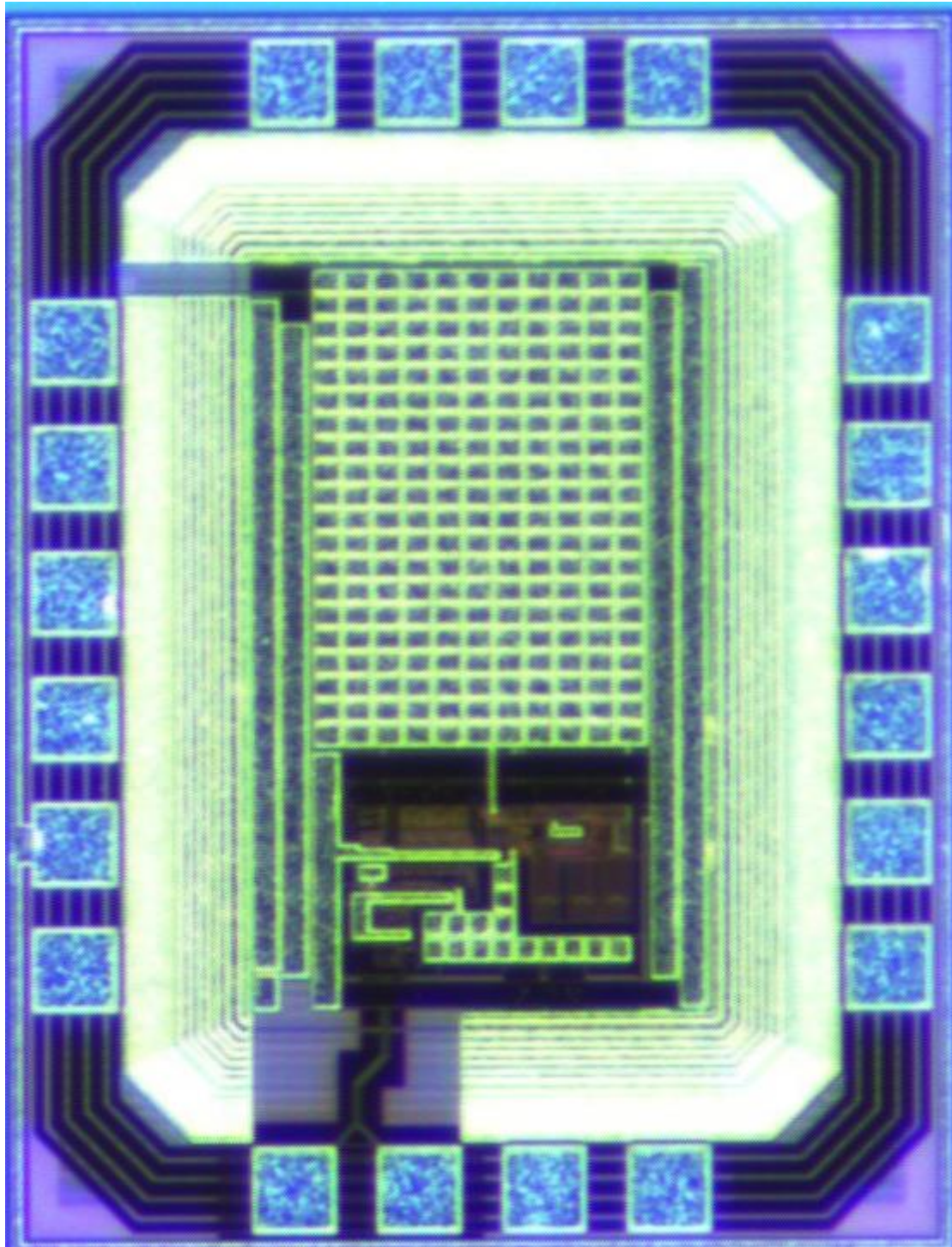


figure. 5. Tape-out successful PLL chip