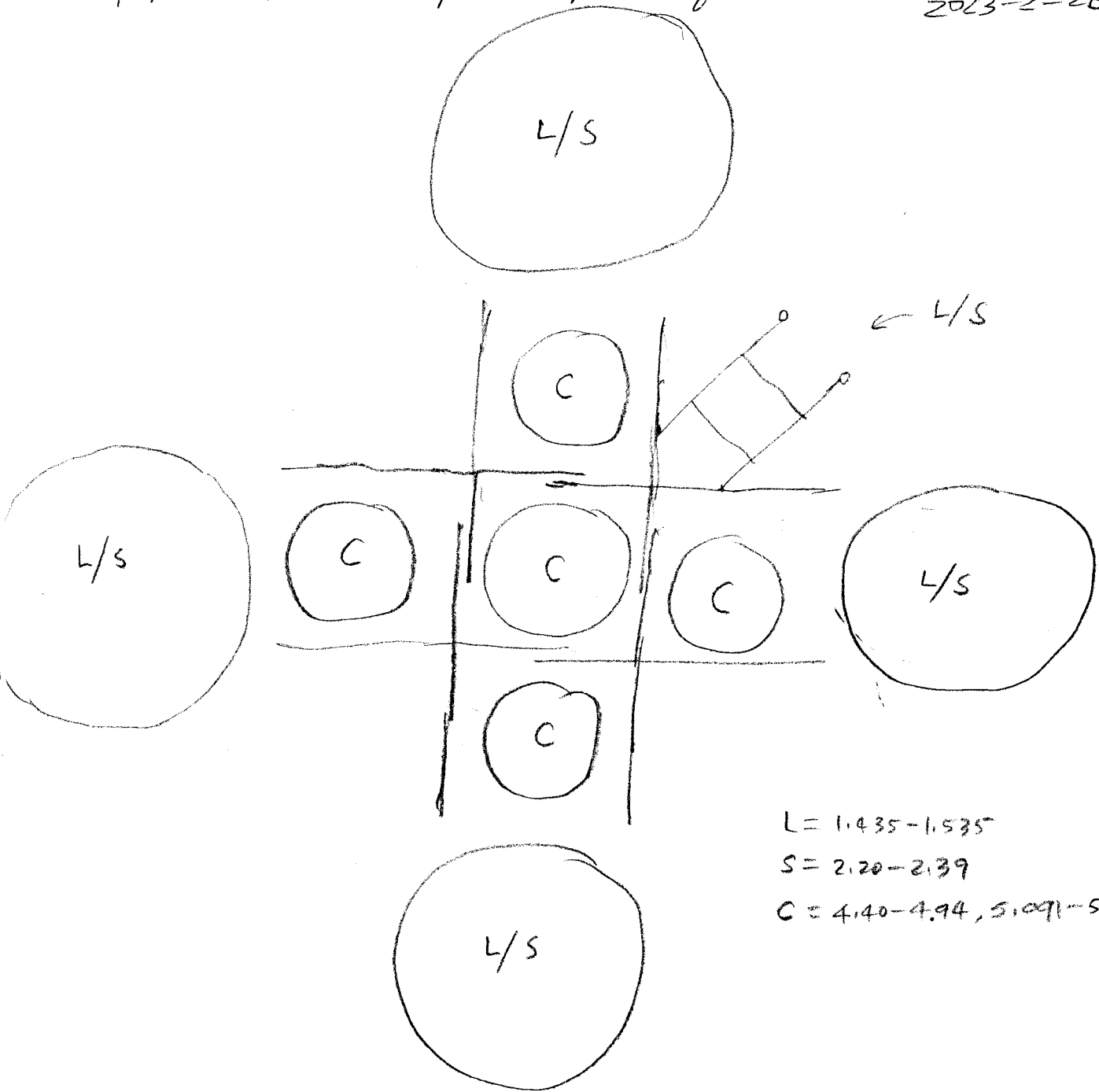


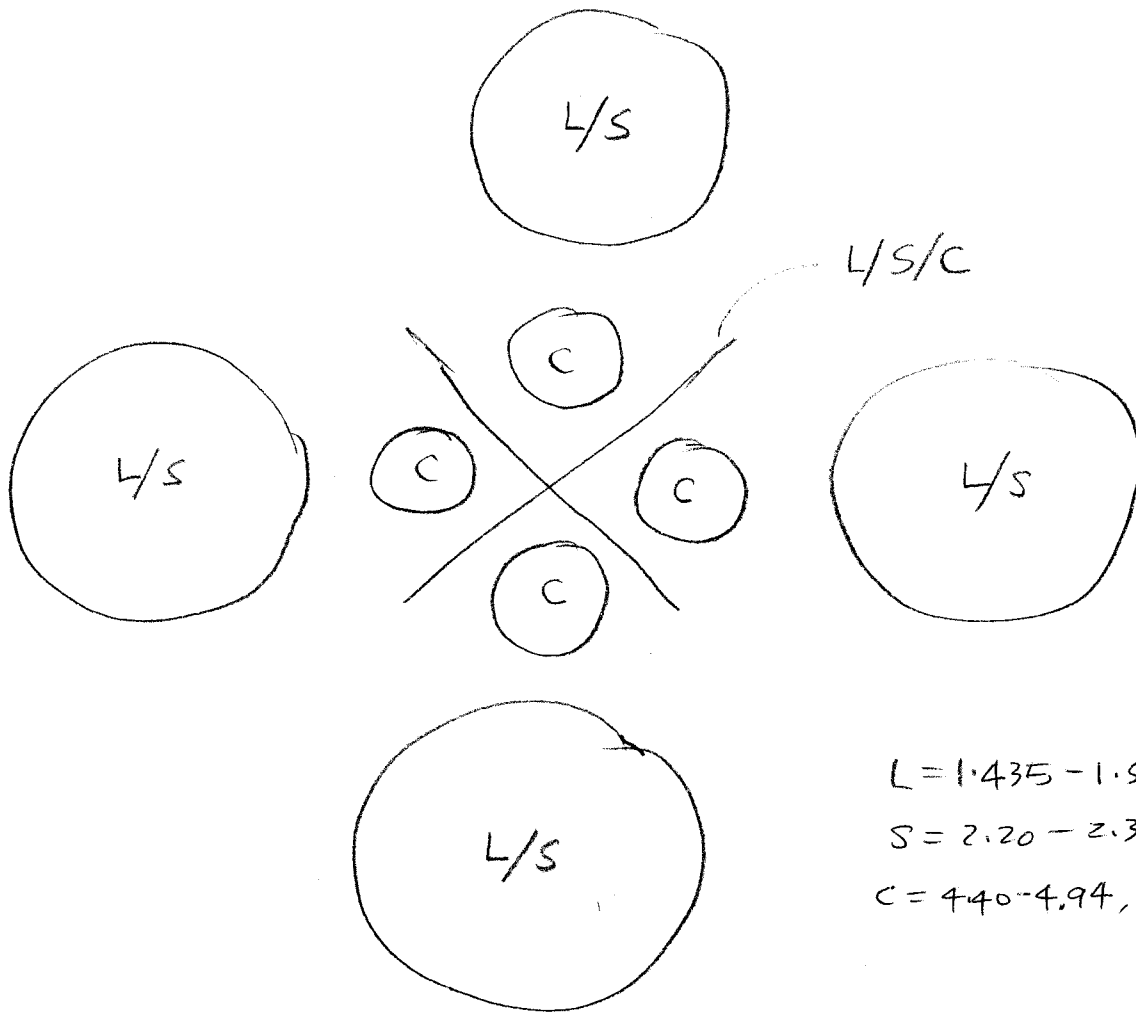
L/S/C-band dual-cp monopulse feed

2023-2-25-SU



$L = 1.435 - 1.535$
 $S = 2.20 - 2.39$
 $C = 4.40 - 4.94, 5.091 - 5.150$

- Dielectric ($\epsilon_r = s$)-filled cir wg w/ septum polarizer wideband
- End-launcher
- Crossed dipole connected array
- Wideband quadrature hybrid coupler
- Sum-del pattern balance
- Phase center agreement
- Back radiation suppression
- Element arrangement: height from ground
- Element coupling and interference



- Dielectric ($\epsilon_r = 5$)-filled cir wg w/ septum polarizer
 ⋮

- L/S/C-band crossed dipole : $5.15/1.435 = 3.58 \approx 3.6$
 - o. Vivaldi
 - o. Off-center fed dipole
 - o. Circular dipole