Science at Icm (= 0.3 to 3cm) 'Thermal imaging on mas scales' T_B (Icm, 180km, 8xVLA, 10hr) ~ IK, 10mas

- Sensitivity/Collecting area: 5-10x VLA
- Critical Frequency range: 1-25, 25-50, 70-100
- Configuration: 3km to 3000km?
- Areal coverage/survey speed: D? FPA?
- Instantaneous wide BW
- Polarization: wide field?

Distant galaxies

- Low order CO: 'sweet spot' => total gas, large scale dynamics
- CO deep fields: larger Vol survey, CO lum function to knee curve
- Free-Free-only galaxies (CMB/young)
- Subkpc imaging SF + molecular gas (proto-glob. Clusters)

Pre-meditated killer-apps

- CoL: pebbles to rocks, opt. thin < 10AU
 - PP disks: inner stratification of grain sizes/migration
 - Circum-planetary disks
 - Formation main sequence/ multiplicity
- Galaxy ecosystems
 - Line mapping 10x faster than ALMA
 - Continuum: synch, FF, spinning dust
 - Low and high mass SF
 - Rich chemistry of large molecules
- Physics, Cosmology
 - Time domain: TDEs, GW-EM, Nova
 - Pulsars at Gal Center
 - Plasma physics Sun to Clusters
 - Megamasers
 - Proper motion of Local Group