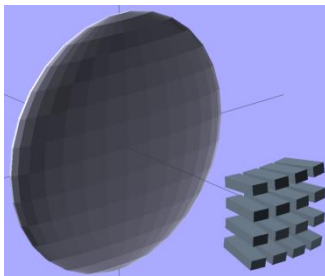


A schematic of the beamspace MIMO (multiple input multiple output) transceiver that uses a lens antenna and a feed antenna array for beamforming. This will serve as a transmitter and/or receiver in our experimental system.



A schematic of a 6" lens antenna with 16 feed antenna array. The beams have an approximate beamwidth of 4.5 degrees and we are currently using WR-28 waveguide feeds as feed antennas.