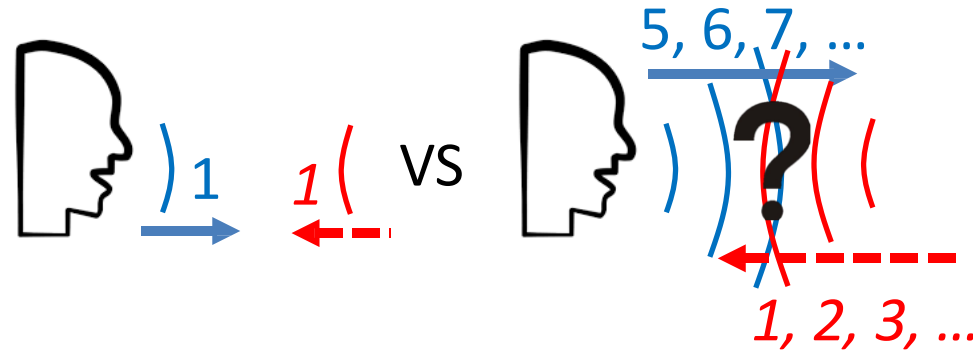


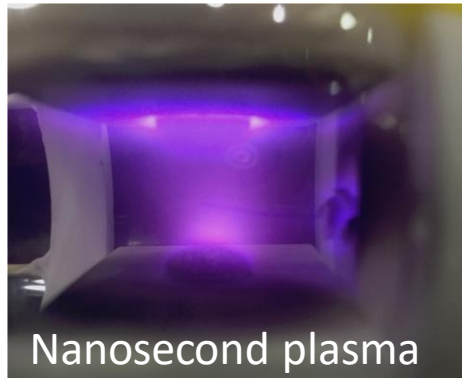
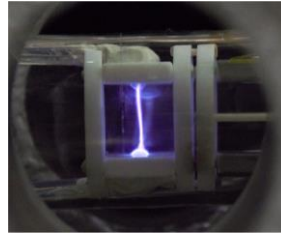
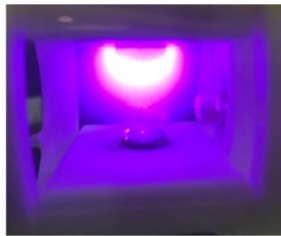
METAL ANTENNA



Short signals

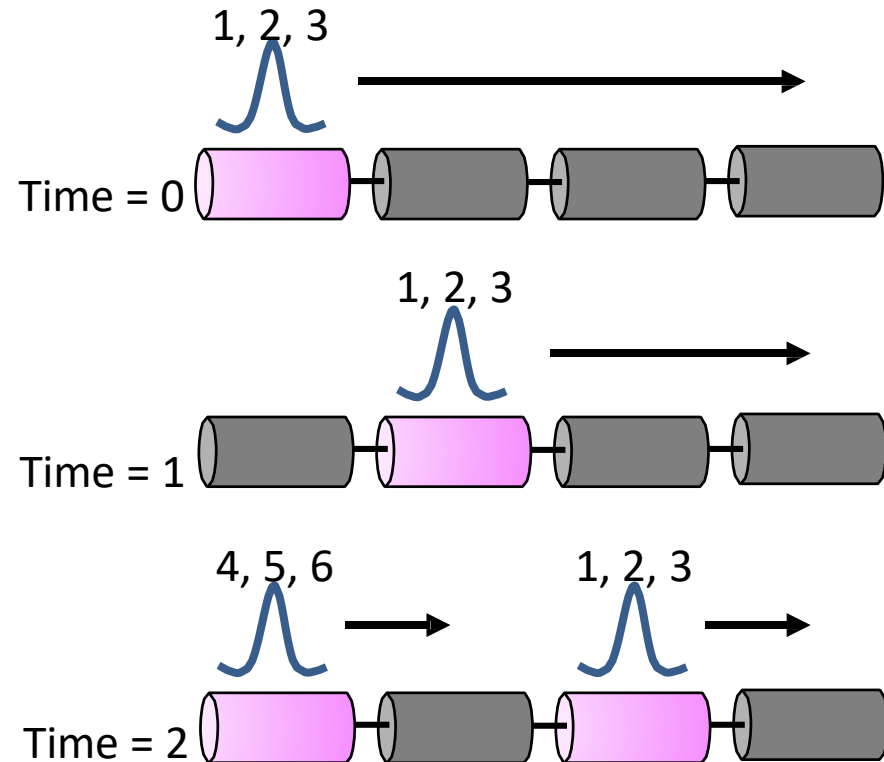
Very Low Frequency
(VLF) signals

PLASMA



Nanosecond plasma

PLASMA ANTENNA



Size of VLF antennas: 100x
size reduction (miles long
to < 30 meters)