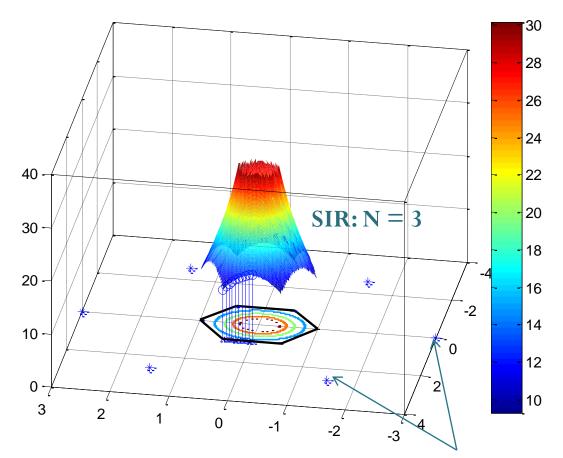


SIR: N = 3

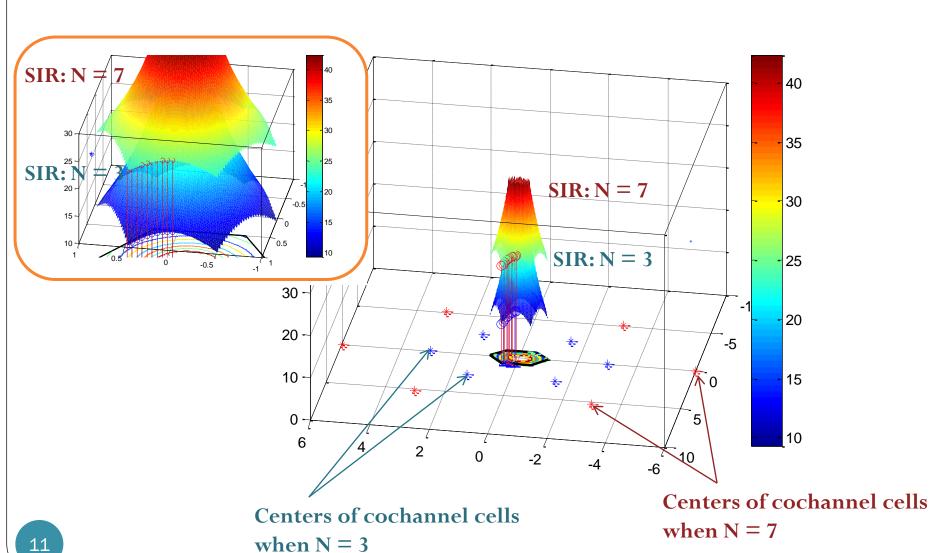
SIR 
$$\approx \frac{k/d^{\gamma}}{\sum_{i} k/D_{i}^{\gamma}} = \frac{1}{\sum_{i} 1/\left(\frac{D_{i}}{d}\right)^{\gamma}} = \frac{1}{\sum_{i} \left(\frac{D_{i}}{d}\right)^{-\gamma}}$$



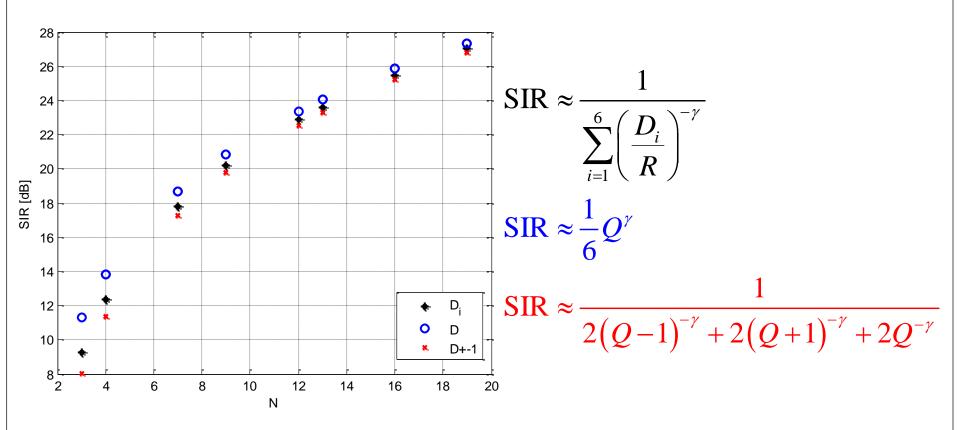
Observe that the SIR value is smallest when MS is at any of the corners of the hexagonal cell. At such locations, d = R (the cell radius).

Centers of cochannel cells when N = 3

## SIR: N = 3 vs. N = 7



## Comparison



$$Q = \frac{D}{D}$$