

Supplementary document of letter:

Study on Optimal FFR Cell-Center Coverage for Power Scaling of a Base Station

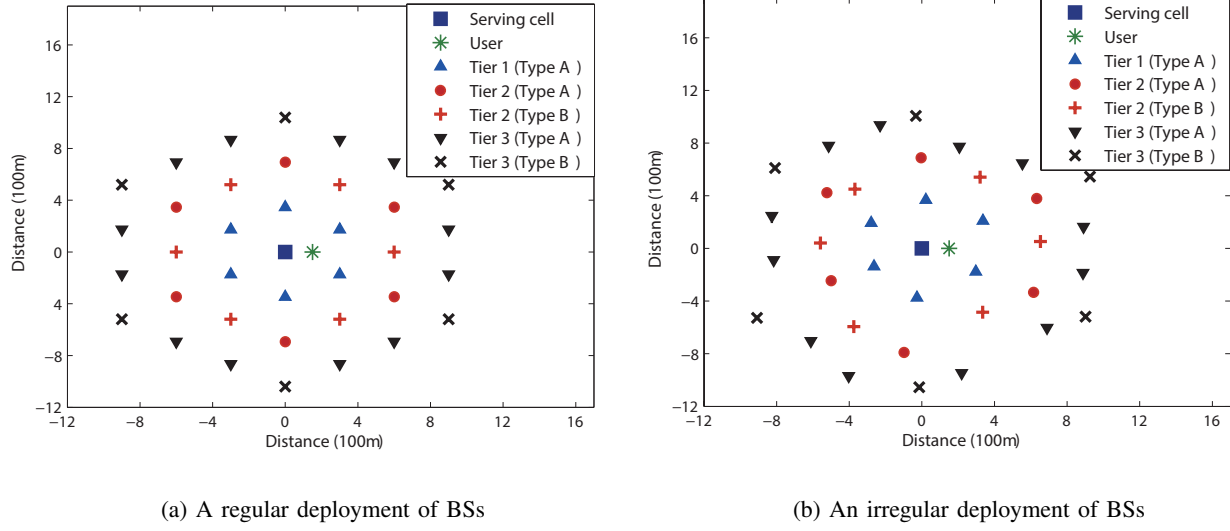


Fig. 1. Hexagonal cellular networks.

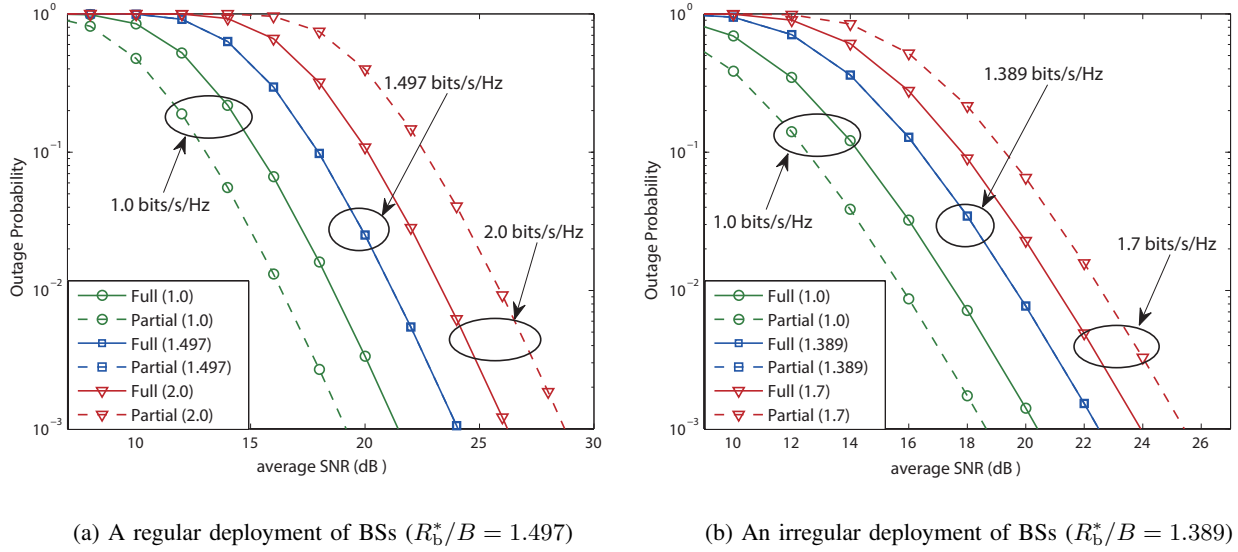
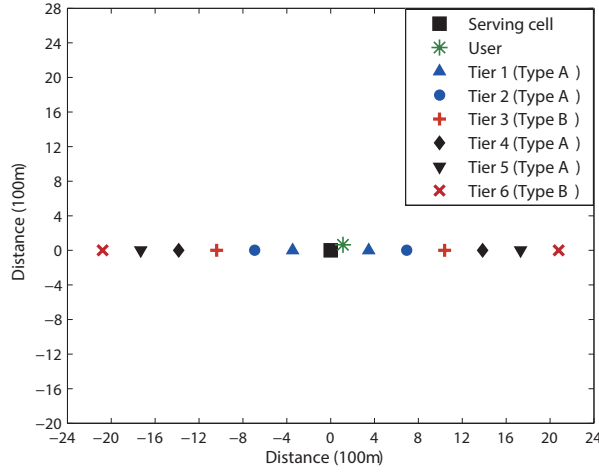
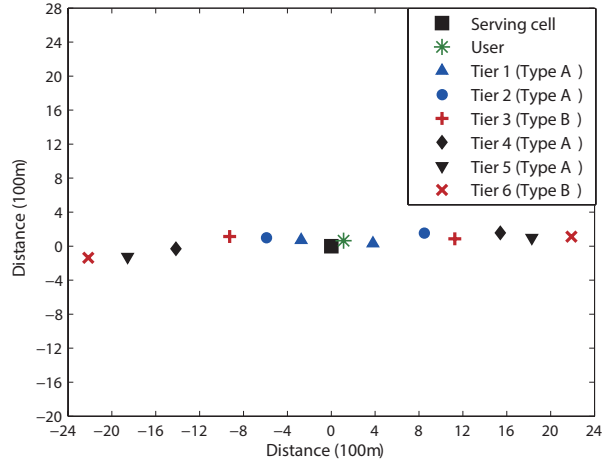


Fig. 2. Outage probabilities in hexagonal cellular networks.



(a) A regular deployment of BSs



(b) An irregular deployment of BSs

Fig. 3. Linear cellular networks.

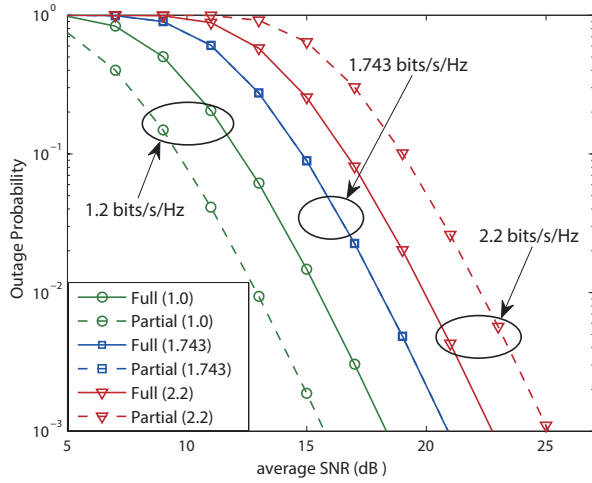
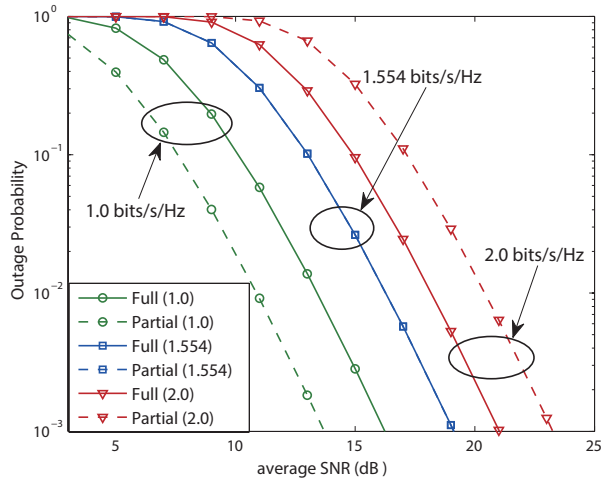
(a) A regular deployment of BSs ($R_b^*/B = 1.743$)(b) An irregular deployment of BSs ($R_b^*/B = 1.554$)

Fig. 4. Outage probabilities in linear cellular networks.

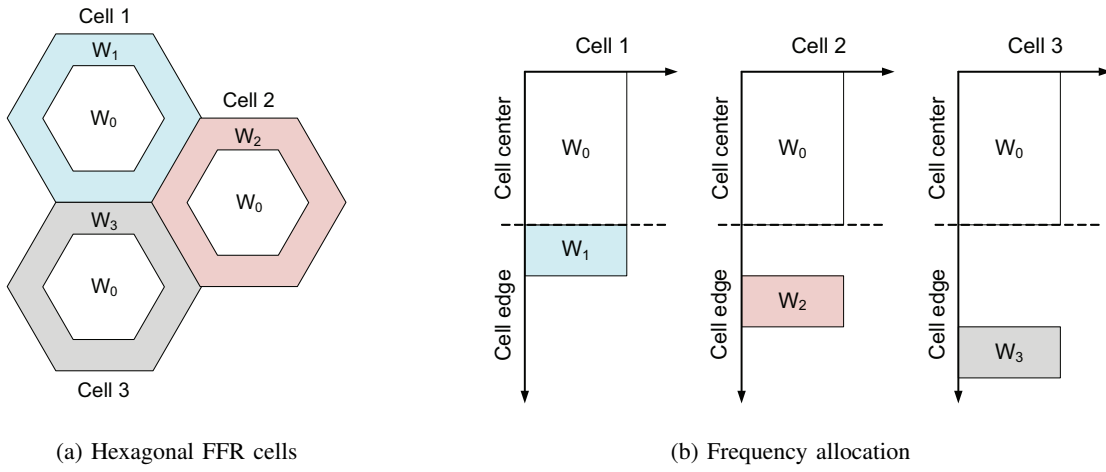


Fig. 5. An example of FFR systems, where the partial FR factor is $M = 3$. (a) W_0 indicates the frequency band for the center region; W_1 , W_2 , and W_3 denote the frequency bands for the edge regions for Cells 1, 2, and 3, respectively. (b) For each cell, the x-axis indicates the power spectral density, and the y-axis indicates frequency.