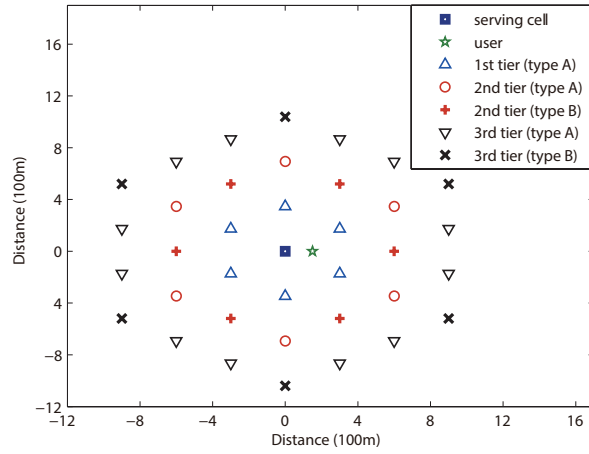
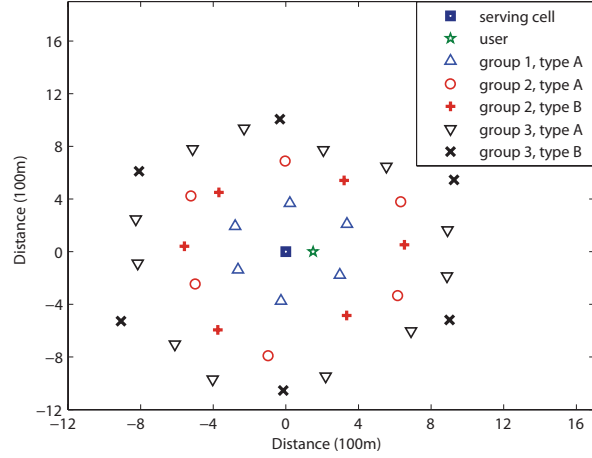


**Supplementary document of letter:**  
**Study on Optimal Cell-Center Coverage in FFR Systems with Power Scaling**  
**of a Single Base Station**

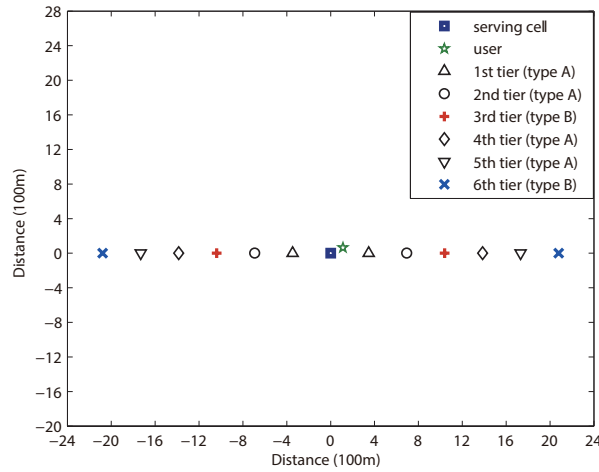


(a) A regular deployment of base stations

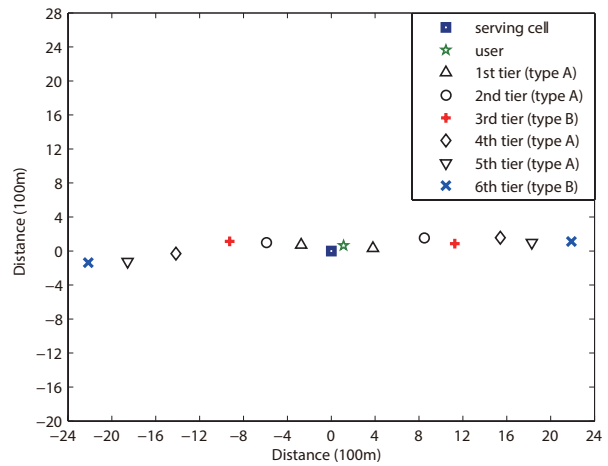


(b) An irregular deployment of base stations

Fig. 1. Hexagonal cellular networks.

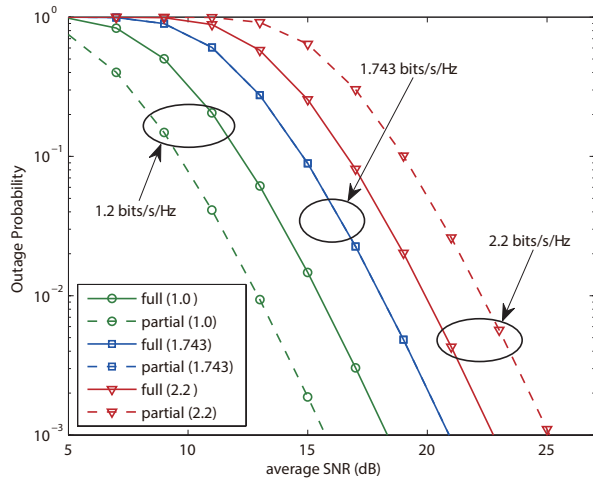


(a) A regular deployment of base stations

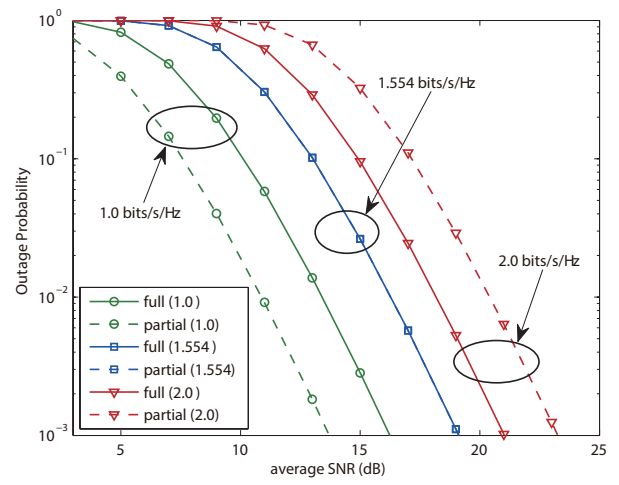


(b) An irregular deployment of base stations

Fig. 2. Linear cellular networks.



(a) A regular deployment of base stations ( $R_b^*/B = 1.743$ )



(b) An irregular deployment of base stations ( $R_b^*/B = 1.554$ )

Fig. 3. Outage probabilities in a linear cellular system.