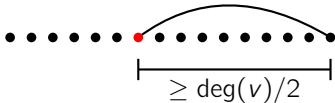
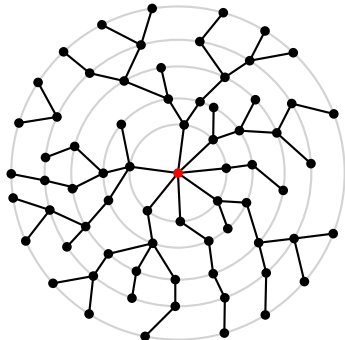


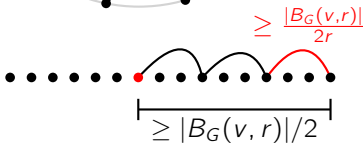
high degree

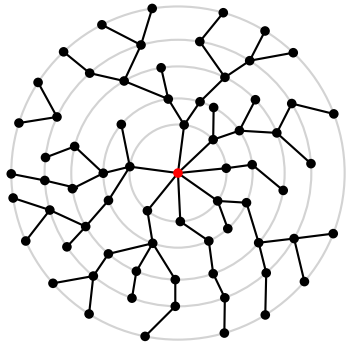




large local density

$$\max_{v,r} \frac{|B_G(v,r)|}{r}$$

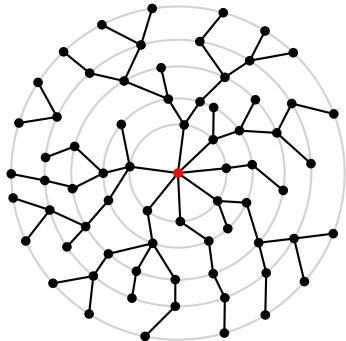




large **local density**

$$\max_{v,r} \frac{|B_G(v,r)|}{r}$$

Theorem (Feige 2000): If G has local density at most D then G has bandwidth $\tilde{O}(D)$.



large **local density**

$$\max_{v,r} \frac{|B_G(v,r)|}{r}$$

Theorem (Feige 2000): If $G - X$ has local density $\tilde{O}(\sqrt{n})$ then G has bandwidth $\tilde{O}(\sqrt{n})$.