Localization Methods

Notation

• Let K be a property on graphs, A(K, p) denote the set of graphs of order at most p that satisfy property K, and

$$f(K,p) := \max\{d(G) \mid G \in A(K,p)\},\$$

where d(G) is the diameter of G.

② For a graph G and a vertex u in G, let $G_i(u)$ denote the subgraph of G induced on the set

$$\{w \in G \mid \partial(u, w) \leq i\}.$$

Localization Methods

Lemma

Let K be a property on graphs, and G be a graph of order p. Then the following are equivalent:

- ② $G_{f(L,p)}(u) \in A(k,p)$ for all vertices u in G.

(叙述怪怪的·需要 K 具單調性·或者誤解 A(K, p) 的定義)