## The Small-World Model

小世界模形的在使平均最短路径保持较短,同时保持较高的繁发系数。这两点某种程度上是相互对的。



Vs.



Regular lattice graph: High clustering coefficient High diameter G<sub>np</sub> random graph: Low clustering coefficient Low diameter

小世界模形的没想是在规则格d图和 Gnp 随机图上浏进行插值。



Regular lattice graph: High clustering coefficient High diameter Interpolate

Small-world graph: High clustering coefficient Low diameter



G<sub>np</sub> random graph: Low clustering coefficient Low diameter 日期:

(low-dimensional regular lattice)

## SI:从低维规律格点图开始

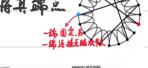
- · high clustering coefficient
- · high path length

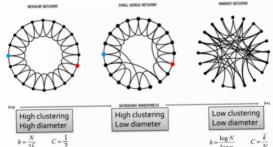


S2: 通过插值,在压端节点上间建正库接

·对牙每系边、以概率P将其端点

移动





事实表调,要破坏聚类分数,需要较大的p,但要 建足够的最短路径,只需要较小的p

The Small-World Model 的华端是不能建立正确的度分布