

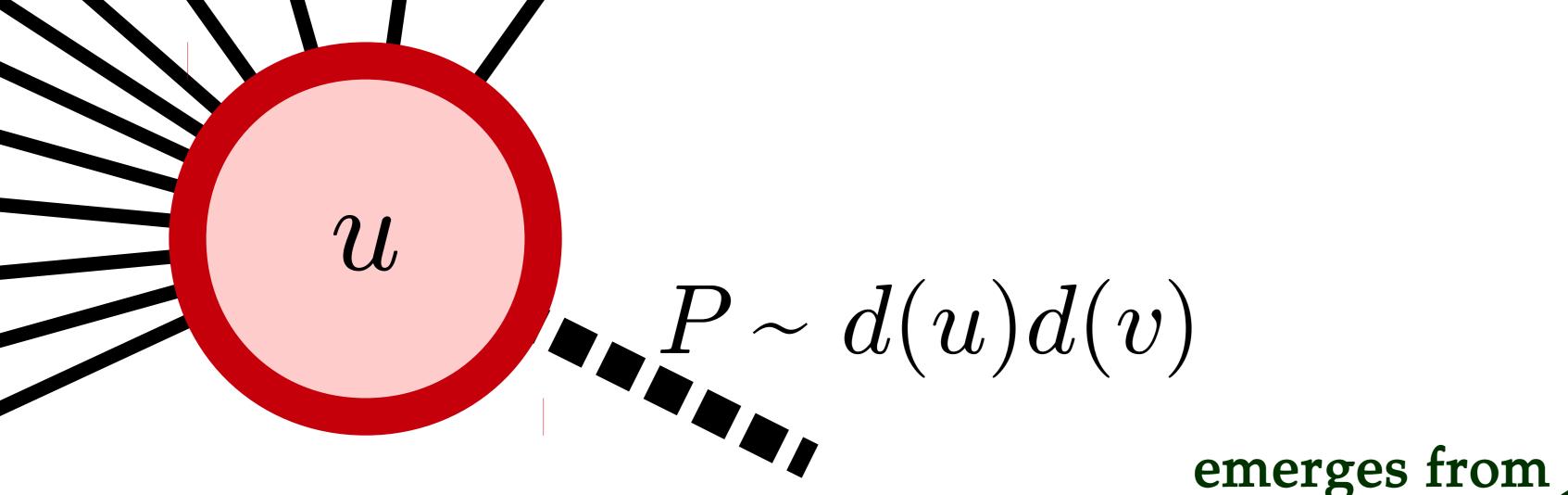
The Problem of Action at a Distance in Networks and the Emergence of Preferential Attachment from Triadic Closure











Rough Analogy

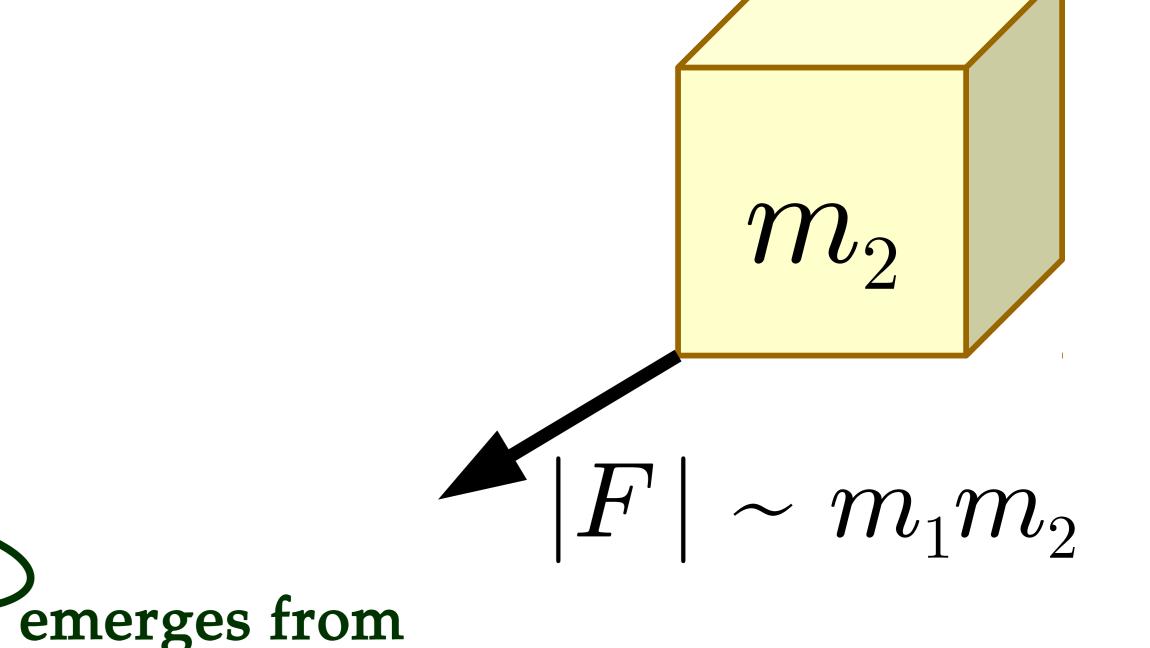
Physics

mass force Newton's law

general relativity

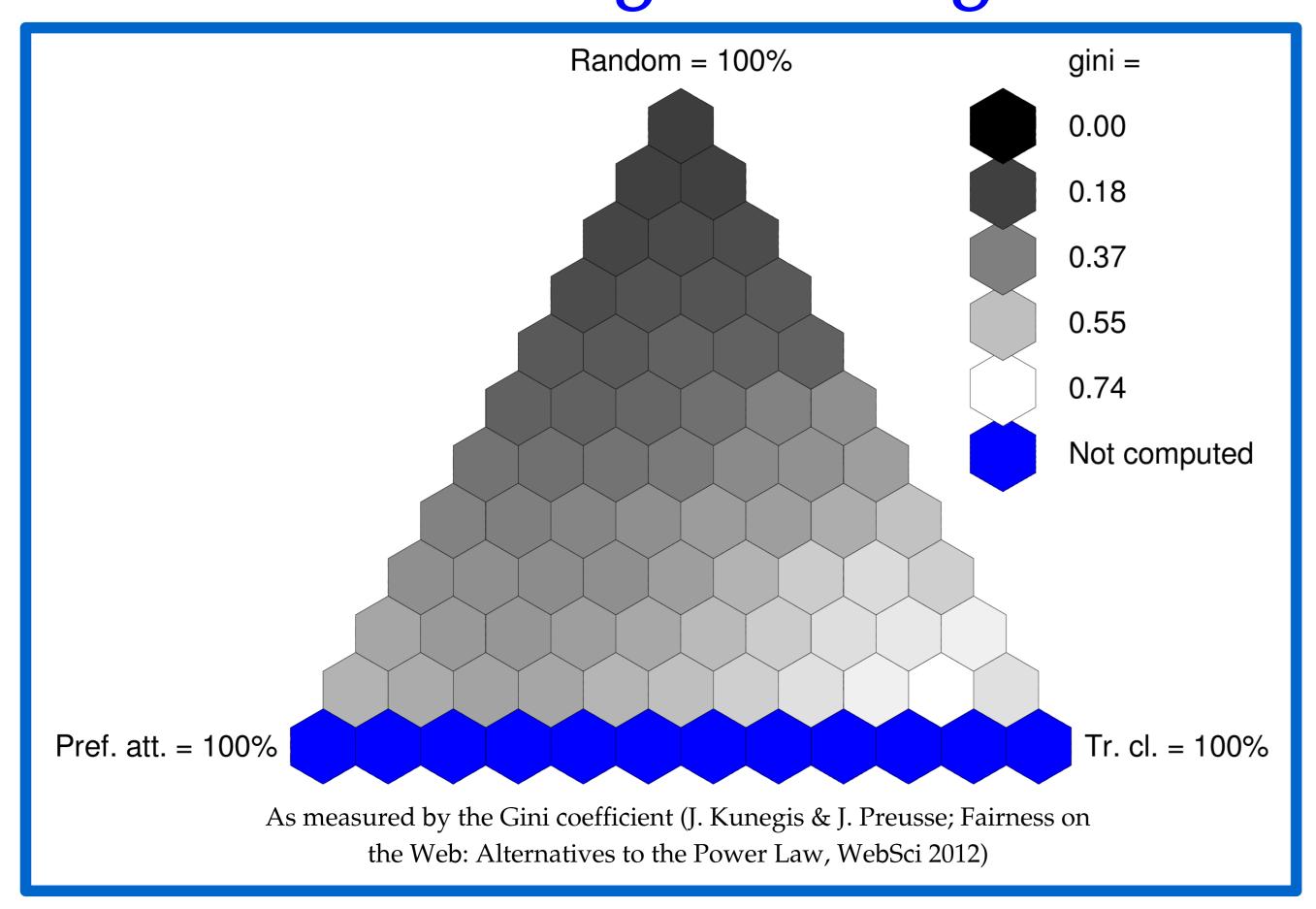
Networks

degree
edge probability
preferential attachment
triangle closing



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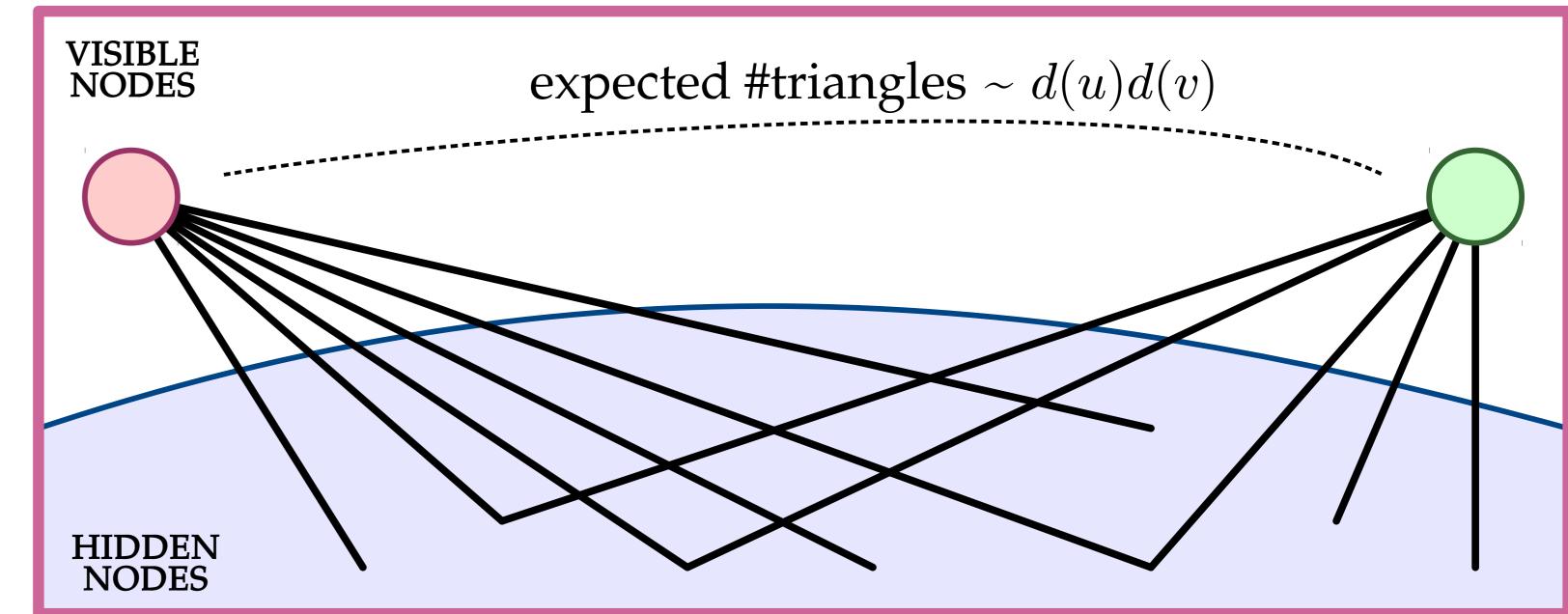
Skewness of Preferential Attachment vs Triangle Closing



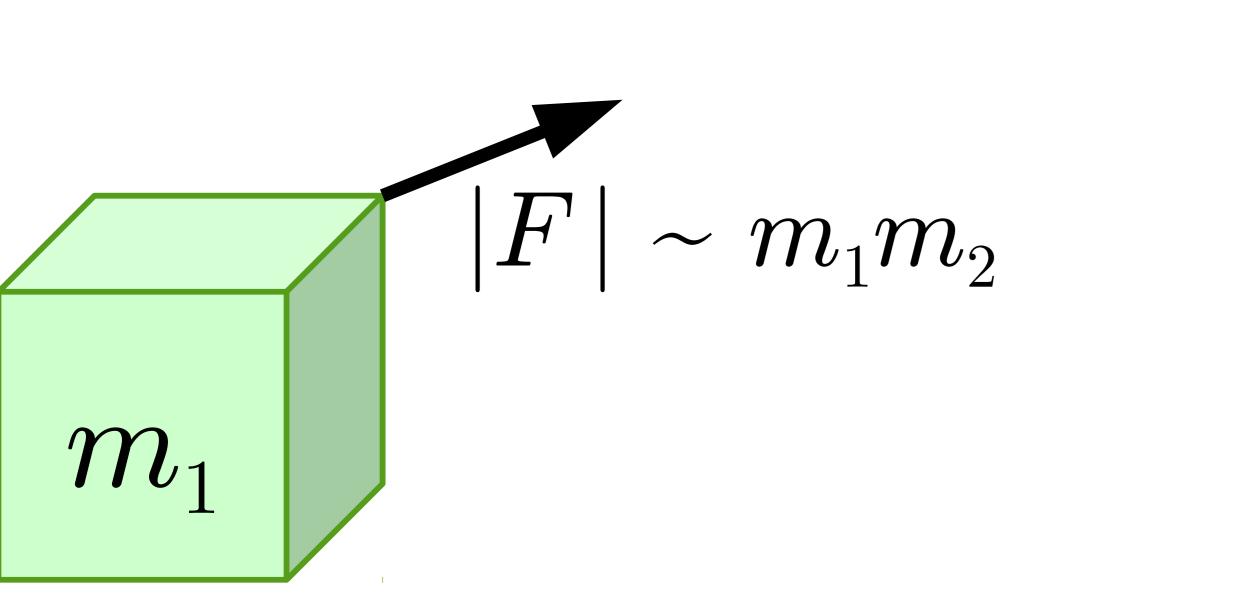
Preferential attachment is like « action at a distance ».

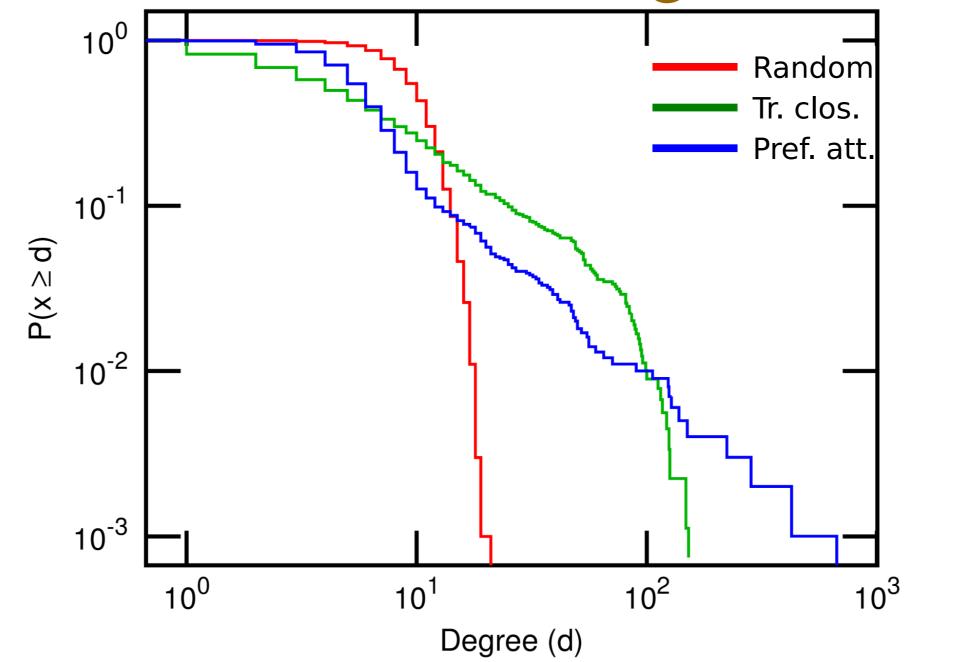
How can it be explained?

Argument by Hidden Triangles



Degree Distribution of Preferential Attachment vs Triangle Closing





Learn more: The Problem of Action at a Distance in Networks and the Emergence of Preferential Attachment from Triadic Closure; Jérôme Kunegis, Fariba Karimi, Jun Sun; J. of Interdisciplinary Methodologies and Issues in Science 2, 2017.

http://jimis.episciences.org/paper/view/id/3285