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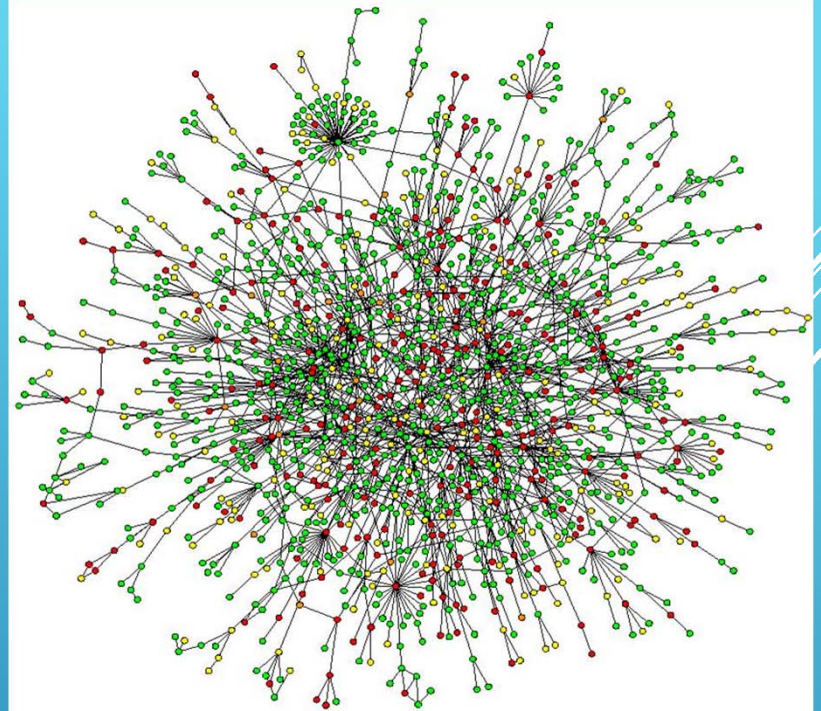
# HOW PHASE DISORDER AFFECTS SIGNAL AMPLIFICATION IN SCALE-FREE NETWORKS

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EXTREMADURA, BADAJOZ, SPAIN

This talk shows how an amplification mechanism induced by the heterogeneity of the connectivity in scale-free networks of signaling devices is drastically reduced when phase disorder in the external signals is considered.

This is demonstrated theoretically in the simpler case of a star-like network of overdamped systems with two minima, and confirmed numerically by simulations of the original scale-free networks.

A gentle introduction to networks will be given.



Please join the UH Hilo  
Physics and Astronomy  
Program for this free  
public talk in STB-225

August 18<sup>th</sup>, 11am

For more information,  
[www.astro.uhh.Hawaii.edu](http://www.astro.uhh.Hawaii.edu)