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**Emergence and Evolution of Order in Physical, Chemical, and Biological Systems**

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Do the Great Red Spot of Jupiter and the spirals in a frog egg have anything in common? The sizes are vastly different and the biology of even a simple frog egg is far more complicated than the physics of a fluid. Yet the patterns formed in such systems, differing widely in scale and in the underlying molecular mechanisms, can in many cases be understood from a common approach.