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Talk 2:

**Stochastic effects in evolutionary dynamics**

Continuing from my previous talk, this presentation will focus on evolutionary dynamics in finite populations. Intrinsic noise leads to phenomena such as extinction and fixation, drift reversal and stochastic slowdown. I will review a number of these effects in the dynamics of evolutionary games, in the evolution of eco-systems, and in the processes leading to cancer initiation. I will discuss how techniques from statistical physics, including the WKB approach, can be used to characterise these systems and effects analytically.