

Prof. Stefan Thurner

**Recent research at the Section for Science of Complex Systems
at the Medical University of Vienna**

We present a short overview of recent work at our institute. We motivate our view of what complex adaptive systems are and how they fundamentally differ from classical science problems. We try to argue that a novel view of quantitatively treating evolutionary dynamics in combination with recent developments in network theory allows to make progress in several fields. We present several examples in the areas of life science (dynamics on gene regulatory networks), the social sciences (buerocratic inefficiency) and the natural sciences (entropy of complex systems).