



Sommerfeld Theory Colloquium

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Multi-scale fluctuations in non-equilibrium systems

Understanding how fluctuations propagate across spatial scales is central to our understanding of inanimate matter from turbulence to critical phenomena. In contrast to these systems, many non-equilibrium systems are organised into a spatial hierarchy of nested processes on different spatial scales, including biological and robotic systems. In this talk, I will discuss physical principles underlying the propagation of fluctuations in these multi-scale systems. I will also show how manipulating probability fluxes across spatial scales is used to perform biological signal processing.

Wednesday, 14 December 2022, 16:15h, Room A348/and/via/Zoom, Theresienstr. 37/III

Prof. Erwin Frey