Physikalisches Kolloquium

Donnerstag, 22.01.2026, 16:30 Uhr – Hörsaal 5J

Structure Formation in Organoid Systems

Prof. Dr. Andreas R. Bausch
Center for Functional Protein Assemblies (CPA),
Chair for Cellular Biophysics, Technical University Munich

Living matter relies on the self organization of its components into higher order structures, on the molecular as well as on the cellular, organ or even organism scale. Collective motion due to active transport processes has been shown to be a promising route for attributing fascinating order formation processes on these different length scales. Here I will present recent results on structure formation in organoid systems, demonstrating how mechanical feedback between extracellular matrix, proliferation and cell migration drives structure formation process in these multicellular model systems. I will present results on the developmental phase of mammary gland, pancreatic ducal adenocarcinoma organoids and epiblastoid development.

Ab 16:00 Uhr Kaffee, Tee und Gebäck im Foyer vor dem Dekanat der Math.-Nat.-Fakultät (Gebäude 25.31. Ebene 00)

Für die Dozenten der Physik
Prof. Dr. Hartmut Löwen