

## Dr. Jens Elgeti

Affiliated with Institute of Complex Systems - Theoretical Soft Matter and Biophysics

Jülicher-Young Investigators Group:      Active Materials



„Active Materials are a state of matter where energy is consumed within the material itself. Key examples are growth of tumors and motion of microswimmers “

Research project: Active Matter is a field of growing interest in the Soft-Matter community. The internal energy consumption of active materials leads to an amazing variety of fascinating and surprising

behaviors. These range from the dynamics of single sperm to multi-sperm and cilia interactions, from single self-propelled particles to collective motion of active suspensions,

from growing tissues under pressure to wound healing. Across the diversity of systems, a certain theme persists: Using minimalistic models to capture the essential features of the underlying physics.

**Start of funding period:**

**Februar 2012**

**End of funding period:**

**Januar 2017**

**Staff:**

**4 PhD Students**

**University affiliation:**

**University of Cologne**

**Public Media:**

[Aachener Zeitung](#) , [Le Monde](#), [Science Daily](#), [Pro-Physik](#)

**Cooperations:**

**Institute Curie (Paris), Ludwig-Maximilians-Universität (Munich), CAESAR (Bonn)**