



EINLADUNG
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ZIH - KOLLOQUIUM

Title: Bacterial movement: evolution induced by starvation

**Referent: Gustavo Sibona
CONICET and FaMAF, Universidad Nacional de Córdoba, ARGENTINA**

Abstract:

The search strategies of many organisms play a fundamental role in their competition to survive in a given environment. This is for example the case of marine microorganisms moving in an environment poor in nutrients. In this context, the propulsion mechanism of these organisms must have evolved to improve the search of new nutrients sources. In the present work we analyze the properties of the bacterial movement considering a model that describes the Brownian movement of objects with an internal energy depot. We found a minimum threshold for the size of microorganisms to obtain benefits from the use of a propulsion system, a result that is in agreement with what is observed in nature.

Ort: Informatik-Neubau, Nöthnitzer Str. 46, INF 1096

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gez. Prof. Dr. Wolfgang E. Nagel