



ICTS Seminar

Title : Confinement shapes and positions bacterial chromosome

Speaker: Debasish Chaudhuri, Institute of Physics, Bhubaneswar

Date: Wednesday, March 21, 2018

Time : 4:00 PM

Venue : Amal Raychaudhuri Meeting Room, ICTS Campus, Bangalore

Abstract: Recent experiments showed that chromosomes in rod-shaped bacteria

has the same helicoid shape, independent of species, suggesting a generic physical mechanism. By growing E.coli in micro-channel, impact of confinement on chromosomes is investigated. We have

details. This allows us to predict chromosome size, positioning,

developed a theoretical model, incorporating minimal necessary

morphology, and segregation -- results that show good comparison

with experiments, providing better insight into the working of one of

the simplest living cells.

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