

Tkach, Colleen

From: Inform
Subject: EM: Keck Science Seminar Announcement: Friday 03/01

From: Soto, Lauran

KECK SCIENCE SEMINAR ANNOUNCEMENT

"Materials Physics with Kinetoplast DNA"

Alex Klotz

Assistant Professor of Physics and Astronomy

California State University, Long Beach

Friday, March 1, 2024

Burns Lecture Hall

12:15-1:15 PM

Abstract: The biological world is the source of many materials with exotic or desirable properties. Among these, DNA molecules have served as a model system to study the physics of polymers on the single-molecule level. A kinetoplast is an exotic form of DNA, found in certain tropical parasites, that consists of thousands of circular molecules topologically linked together like a sheet of chainmail armor. I will discuss the motivation and path that lead me to study kinetoplast DNA, some recent and ongoing experimental results, and what we can learn about the physics of two-dimensional materials and mechanically-interlocked chemical bonds from studying these DNA structures.

Find additional seminar information here: <https://www.kecksci.claremont.edu/seminars/>

Best,

Lauran Soto - Administrative Assistant (she/her)

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