

Department of Physics



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Colloquia

www.physics.bilkent.edu.tr

FALL 2014

SEP 17

Peer Fischer — *Max Planck Institute for Intelligent Systems, Stuttgart, Germany*
Three-Dimensional Hybrid Nanostructures, Chemical Nanomotors,
and Nanorobot Propulsion

OCT 01

Ivan Shelykh — *University of Iceland, Reykjavik, Iceland*
Optical Analogs of Aharonov-Bohm Effect

NOV 05

Máté Nagy — *Eötvös Loránd University, Budapest, Hungary*
Collective Motion and Group Behaviour
Observations, Models, Quantitative Analysis and Robotic Applications

NOV 12

Charles Reichhardt — *Los Alamos National Laboratory, New Mexico, USA*
Jamming and Clogging Transitions in
Driven Systems in the Presence of Obstacle Arrays

NOV 19

Hartmut Löwen — *Düsseldorf University, Düsseldorf, Germany*
Physics of Active Matter

NOV 26

Roland G. Winkler — *Forschungszentrum Jülich GmbH, Jülich, Germany*
Physics of Bacteria Locomotion

DEC 03

Balázs Dóra — *Budapest Uni. of Technology and Economics, Budapest, Hungary*
How to Engineer the Band Structure of a (Topological) Insulator?

DEC 10

Eric Westman — *Karolinska Institutet, Stockholm, Sweden*
Early Diagnosis of Alzheimer Disease Using Multimodal Imaging

DEC 17

N. Gökhan Ünel — *University of California, Irvine, USA*
Higgs Particle as the Fruit of the Marriage Between Physics and Engineering

day

WEDNESDAY

location

EE01

time

15:40

The Physics Colloquia are designed to address a non-specialist, broad audience and introduce topics of contemporary research through lectures by leading experts. We warmly invite all members of the student body, including undergraduates enrolled in any programme.