

המחלקה למתמטיקה, בן-גוריון

Sakurai Noriko the of Award
2016 for Fellowship Postdoctoral

BEN-GURION UNIVERSITY OF THE NEGEV
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פרופ' מרים כהן

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**The Department of Mathematics and the Center of Advanced Studies in Mathematics
announce a special meeting to mark the award of
the Noriko Sakurai fellowship and the Excellence day for the year 2016**

Tuesday, June 7 at 14:00 at the Deichmann building for Mathematics (58), Seminar room -101

Program:

14:00 Gathering, light refreshments

14:25 **Opening remarks:**

Prof. Miriam Cohen,

Director of the Center of Advanced Studies in Mathematics

Prof. Daniel Sternheimer,

Rikkyo (Japan) and Bourgogne (France) Universities

14:35 **Honorary lecture:**

Prof. Daniel Sternheimer, Rikkyo University and Universite de Bourgogne

Title: The reasonable effectiveness of mathematical deformation theory in physics

Abstract: In 1960 Wigner marveled about "the unreasonable effectiveness of mathematics in the natural sciences." In 1963/64 appeared index theorems for pseudodifferential operators and Gerstenhaber's theory of deformations of algebras. In the mid-seventies the two "converged" to explain quantum mechanics as a deformation of classical mechanics, what is now called "deformation quantization". Quantum groups and noncommutative geometry can be considered as avatars of that framework. I shall explain these notions in general terms and describe some results, ending with a suggestion to use the framework to put on "non-clay feet" the "colossal" standard model.

15:15 The 2016 Noriko Sakurai fellowship award ceremony and a lecture
by **Dr. Chaya Keller**, recipient of the Noriko Sakurai fellowship
Title: "Improved bounds on the Hadwiger-Debrunner numbers"

15:30 The 2016 Friedman prize award for a doctoral work ceremony and a lecture
by **Mr. Alexandre Rok**, recipient of the Friedman prize
Title: "On an extension of the notion of a median in higher dimensions"

15:40 **Excellence awards for undergraduate students:**

Dean's prize for Excellency: Mr. Yotam Dikstein

Certificate of Recognition: Mr. Tom Hess, Mr. Jonathan Volij

Time : יוני 7, 14:00–16:00, 2016

Location : Seminar room 101- Math building (58), BGU

Web : <https://www.math.bgu.ac.il/research/events/sakurai2016>