

Department of Mathematics, BGU

Award of the Noriko Sakurai
Postdoctoral Fellowship for 2016

BEN-GURION UNIVERSITY OF THE NEGEV
P.O.B. 653, BEER-SHEVA 84105, ISRAEL

אוניברסיטת בן-גוריון בנגב
ת.ד. 653 באר-שבע 84105

Professor Miriam Cohen

Director, Center for Advanced Studies in
Mathematics
Department of Mathematics
Tel. 972-8-6461611 Fax. 972-8-6477648



פרופ' מרים כהן

ראש המרכז ללימודים מתקדמים במתמטיקה
המחלקה למתמטיקה
טלפון: 08-6461611 פקס: 08-6477648

E-Mail: mia@math.bgu.ac.il

**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: *Jun ,7,16:00—14:00 2016*

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

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