

KOLOKIUM ALJABAR

Kamis, 20 Oktober 2016

Laboratorium Aljabar
Departemen Matematika FMIPA UGM
akan menyelenggarakan KOLOKIUM ALJABAR dengan pembicara :

Prof. Alexander Zimmermann
(Université de Picardie, France)

<http://www.lamfa.u-picardie.fr/alex/azimengl.html>



Topik
SEKITAR TEORI REPRESENTASI
“On equivalences between categories of representations”

Pada:
Kamis, 20 Oktober 2016, pukul 13.00-15.00

Tempat: Ruang Sidang 1, Lantai 3
Departemen Matematika, FMIPA UGM

Tempat terbatas: Maksimum 50 peserta

Bagi Mahasiswa S1/S2/S3 dan dosen yang tertarik untuk mengikuti kegiatan tersebut diwajibkan mendaftar di TU Departemen Matematika (sdri Siti Aisyah: aiswa (at) ugm.ac.id) paling lambat Selasa, 18 Oktober 2016 jam 15.00 WIB.

Title:

On equivalences between categories of representations

Abstract:

In this lecture

I will introduce some developments which occurred in the last 20 years in the representation theory of algebras.

I shall start with explaining some of the main purposes and objects in representation theory, and then gradually introduce the new concepts from homological algebra which proved to be very useful in representation theory. I will introduce derived categories, give some of their properties and invariants, such as Hochschild cohomology.

We then go further to singular categories, rediscovered most recently by Orlov in the context of mirror symmetry, and I will present Zhengfang Wang's new homology theory adapted to this category.

I will explain some of their properties and compare with the Hochschild cohomology situation.

Throughout I will try to avoid technical definitions and I will put my efforts to concentrate on the conceptual idea behind