



Department of Mathematics and Statistics

**Fourth CARG Workshop
Monday, April 27, 2015**

The workshop is organized by the Commutative Algebra Research Group (CARG) <http://www3.kfupm.edu.sa/carg/index.htm>. The purpose is to bring together (commutative) algebraists from KSA, from the Gulf region as well researchers from other countries to discuss recent development and trends in research in (commutative) algebra and related fields.

Invited Speakers: **Ayman Badawi** (American University of Sharjah, UAE), **Abdulaziz Deajim** (King Khalid University, KSA), **Mongi Naimi** (M.E.S.R.S, Tunisia).

Program

Venue: Research Institute (Building 15) – Room 4004 (Fourth floor)
(GPS coordinates N 26° 18' 25", E 50° 8' 30")

Sessions	Time	Speaker and Title
	08:50- 09:00	Opening Address
Session 1 Chaired by: Dr. Al-Rasasi	09:00 – 09:30	<i>On 2-absorbing Primary Ideals of Commutative Rings</i> Dr. A. Badawi
	09:30 – 10:00	<i>A Conjecture on the Krull Dimension of Polynomial Rings over Krull Domains</i> Dr. S. Kabbaj
	10:00 – 10:15	Coffee Break
Session 2 Chaired by: Dr. Abuhlail	10:15 – 10:45	<i>On the Problem of Decomposing a Rational Prime in a Number Field</i> Dr. A. Deajim
	10:45 – 11:15	<i>The Distribution of Divisors of Gaussian Integers</i> Dr. M. Naimi
	11:15 – 11:45	<i>Extensions of Picard 2-stacks, Torsors, and their Classification</i> Dr. A. Tatar
	11:45 – 14:00	Prayer and Lunch Break
Session 3 Chaired by: Dr. Echi	14:00 – 14:30	<i>Injective Semimodules</i> Dr. J. Abuhlail
	14:30 – 15:00	<i>A Complete Graphical Calculus for Spekken's Toy Bit Theory</i> Dr. A. Duman
	15:00 – 15:30	<i>Finite Matrix Subgroups and the Sum-Product Splitting Property</i> Dr. A. Laradji