

# CURRICULUM VITAE

**Updated 14.10.2009**

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**Associate Professor of Algebra**

**Department of Mathematics and Statistics (KFUPM, KSA)**

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# 1. BIOGRAPHICAL DATA AND EXPERIENCE RECORD

## 1.0. PERSONAL DATA

- ❖ **Full Name:** Jawad Younes Abdullah Abuhlail
- ❖ **Birth:** January 28<sup>th</sup>, 1971 at Dora - Palestine.
- ❖ **Nationality:** Palestinian
- ❖ **Social Status:** Married
- ❖ **Kids:** Younes **14**, Shatha **11**, Lujain **4** and Ahmad **2 months**.
- ❖ **Current Address:** Department of Mathematics and Statistics  
P.O. Box 5046, KFUPM  
Dhahran 31261 – Kingdom of Saudi Arabia
- ❖ **E-mail Address:** [abuhlail@kfupm.edu.sa](mailto:abuhlail@kfupm.edu.sa)
- ❖ **Homepage:** <http://faculty.kfupm.edu.sa/math/abuhlail>
- ❖ **Phone:** (Office) + 966-3-860-4737, (Mobile) + 966-55-760-9357
- ❖ **Fax:** + 966-3-860-2340

## 1.1. EDUCATION

- ❖ **1976 – 1985:** Elementary & Preparatory Schools (Dora)
- ❖ **1985 – 1988:** Shariah Secondary School (Hebron)
- ❖ **June 1988:** GSSC (General Secondary School Certificate)
- ❖ **1988 – 1991:** Mu'ta University (Jordan)
- ❖ **June 1991:** B.Sc. in Mathematics
- ❖ **1991 – 1993:** Yarmouk University (Jordan)
- ❖ **Sep. 1993:** M.Sc. in Mathematics "Algebra"
- ❖ **Oct. 1996 – Mar. 1997:** German Courses, Göthe Institut (Göttingen)
- ❖ **April 1997 – July 2001:** Heinrich-Heine Universität (Düsseldorf: Germany)
- ❖ **July 2001:** Ph.D. in Mathematics:

	<b>Specialty</b>	<b>Grade</b> <b>German (English)</b>	<b>Equivalent Grade</b> <b>(in letters)</b>
<b>Major</b>	Algebra	ausgezeichnet <b>(distinguished)</b>	A+
<b>First Minor</b>	Applied Mathematics	Sehr gut (very good)	A
<b>Second Minor</b>	Computer Science	gut (good)	B
	<b><i>Total Grade</i></b>	<b>Sehr gut</b> <b>(very good)</b>	<b>A</b>

☒ **M.Sc. Thesis:** Permutation Functions over Finite Fields

(**Supervisor:** Prof. Mowaffaq Hajja)

☒ **Ph.D. Thesis:** Duality Theorems fro Hopf Algebras over Rings

(**Supervisor:** Prof. Robert Wisbauer)

## 1.2. AREAS OF EXPERTISE AND RESEARCH INTERESTS:

### ❖ **Associative Algebra (16-XXX):**

- **Module Theory:** Equivalencies of Categories; Morita Theory and its Generalizations, \*-Modules; Prime and Coprime Modules
- **Corings and Comodules:** Morita-Takeuchi Theory; Galois Extensions
- **Hopf Algebras:** Duality Theorems; Hopf-Galois Extensions

### ❖ **Commutative Algebra (13-XXX):**

- Tilting and Cotilting Modules; Star-Modules & Self-tilting Modules
- Prime (Coprime) Modules; Primary (Coprimary Modules)
- $(n,d)$ -Rings;  $n$ -Coherent Rings

## 1.3. EMPLOYMENT HISTORY

- **April 2006 – NOW** Associate Professor  
KFUPM, Dhahran (Saudi Arabia)
- **Sep. 2003 – March 2006** Assistant Professor  
KFUPM, Dhahran (Saudi Arabia)
- **Sep. 2001 – Aug. 2003** Assistant Professor  
Birzeit University (Palestine)
- **Sep. 1995 – Sep. 1996** Lecturer/Peer Consultant  
College for Training Teachers,  
RamAllah (Palestine)
- **Sep. 1993 – Jan. 1996** Lecturer  
Birzeit University (Palestine)
- **Feb. 1992 – June 1993** Teaching Assistant  
Yarmouk University (Jordan)

## 1.4. MEMBERSHIPS

- ❖ American Mathematical Society (AMS)
- ❖ Deutsche Mathematiker-Vereinigung (DMV)
- ❖ European Mathematical Society (EMS)
- ❖ Palestinian Mathematical Society (PMS)

## 1.5. SCHOLARSHIPS

❖ **April 1997 – July 2001:**

Scholarship to get Ph.D. title at Heinrich-Heine Universität (**Düsseldorf – Germany**), Deutscher Akademischer Austauschdienst (DAAD).

❖ **October 1996 – March 1997:**

Scholarship to study German language at Göthe-Institute (**Göttingen – Germany**), Deutscher Akademischer Austauschdienst (DAAD).

## 1.6. RESEARCH VISITS/SHORT PERIOD RESEARCH GRANTS

❖ **June 16<sup>th</sup> - Sept. 15<sup>th</sup>, 2009:** Heinrich-Heine Universität (**Germany**)

Invited by: Prof. Robert Wisbauer.

Research Grant: German Academic Exchange Service (DAAD).

❖ **September 10-16, 2008:** University of Glasgow (**Scotland, UK**)

Invited by: Prof. Patrick Smith

Supported by DSR, KFUPM

❖ **June 20-28, 2005:** Da Universidade Do Porto (**Portugal**)

Invited by: Dr. Christian Lomp

Research Grant: Centro de Matematica da Universidade do Porto

❖ **June 11<sup>th</sup> - Aug. 10<sup>th</sup>, 2005:** Heinrich-Heine Universität (**Germany**)

Invited by: Prof. Robert Wisbauer.

Research Grant: German Academic Exchange Service (DAAD).

❖ **Dec. 7-9, 2000:** Swansea University (**Wales, UK**)

Invited by: Prof. Tomasz Brzezinski

Research Grant: English-German Academic Exchange Program.

❖ **Dec. 2000 (≈ 1 week):** Manchester University (**UK**)

Invited by: Prof. Mike Prest.

Research Grant: English-German Academic Exchange Program.

❖ **Nov. 1999 (≈ 2 weeks):** Manchester University (**UK**)

Invited by Prof. Mike Prest

Research Grant: English-German Academic Exchange Program.

❖ **May 1999 (≈ 2 weeks):** Granada University (**Spain**).

Invited by: Prof. J. Gomez-Torrecillas

Research Grant: Spanish-German Academic Exchange Program (Acciones Integradas)

## 1.7. VISITORS:

- ❖ **Prof. S.K. Jain**, Ohio University, March 27<sup>th</sup> – April 29<sup>th</sup>, 2009.
- ❖ **Prof. Robert Wisbauer**, Heinrich-Heine Universität (**Germany**), February 19<sup>th</sup> - March 1<sup>st</sup>, 2005 & March 20<sup>th</sup> – April 4<sup>th</sup>, 2009.
- ❖ **Dr. Christian Lomp**, University of Porto (**Portugal**), March 15-24, 2006.

## 1.8. REFEREES:

#	Name	Email & Website	Postal Address
*	Prof. Robert Wisbauer, (Advisor, coauthor)	<a href="mailto:wisbauer@math.uni-duesseldorf.de">wisbauer@math.uni-duesseldorf.de</a>  <a href="http://reh.math.uni-duesseldorf.de/~wisbauer">http://reh.math.uni-duesseldorf.de/~wisbauer</a>	Mathematics Institut Heinrich-Heine-Universität Universitätsstr. 1, D-40225 Düsseldorf (GERMANY)
1.	Prof. Tomasz Brzezinski (Coeditor)	<a href="mailto:T.Brzezinski@swansea.ac.uk">T.Brzezinski@swansea.ac.uk</a>  <a href="http://www-maths.swan.ac.uk/staff/tb">http://www-maths.swan.ac.uk/staff/tb</a>	Department of Mathematics University of Wales Swansea, Singleton Park, Swansea, SA2 8PP (UK)
2.	Prof. Stefaan Caenepeel	<a href="mailto:scaenepe@vub.ac.be">scaenepe@vub.ac.be</a>  <a href="http://homepages.vub.ac.be/~scaenepe">http://homepages.vub.ac.be/~scaenepe</a>	<a href="#">Faculteit Toegepaste Wetenschappen</a> <a href="#">Vrije Universiteit Brussel, VUB</a> Pleinlaan 2, B -1050 Brussel (BELGIUM)
3.	Prof. Sorin Dascalescu	<a href="mailto:sdascal2001@yahoo.com">sdascal2001@yahoo.com</a>	Department of Algebra, Faculty of Mathematics, University of Bucharest (ROMANIA)
4.	Prof. Jose Gomez-Torrecillas (Coauthor)	<a href="mailto:gomezj@ugr.es">gomezj@ugr.es</a>  <a href="http://www.ugr.es/~gomezj">http://www.ugr.es/~gomezj</a>	Departamento de Álgebra Universidad de Granada E-18071 Granada (SPAIN)
5.	Prof. Salah-Eddine Kabbaj (Senior Consultant, Coauthor)	<a href="mailto:kabbaj@kfupm.edu.sa">kabbaj@kfupm.edu.sa</a>  <a href="http://faculty.kfupm.edu.sa/math/kabbaj">http://faculty.kfupm.edu.sa/math/kabbaj</a>	Department of Mathematical Sciences, Box # 5046 (KFUPM), 31261 Dhahran (KSA)
6.	Prof. Claudia Menini	<a href="mailto:men@unife.it">men@unife.it</a>  <a href="http://web.unife.it/utenti/claudia.menini">http://web.unife.it/utenti/claudia.menini</a>	Dipartimento di Matematica, Università di Ferrara Via Machiavelli 35, Ferrara, I-44100 (ITALY)
7.	Prof. Syed K. Nauman (Coauthor)	<a href="mailto:synakhaled@hotmail.com">synakhaled@hotmail.com</a>	Department of Mathematics, King AbdulAziz University P.O.Box 80203, 21589 Jeddah (KSA)
8.	Prof. Mohammad Saleh (Coauthor)	<a href="mailto:msaleh@birzeit.edu">msaleh@birzeit.edu</a>  <a href="http://home.birzeit.edu/math/Mohammad_Saleh/index.htm">http://home.birzeit.edu/math/Mohammad_Saleh/index.htm</a>	Birzeit University, P.O. Box 14, Birzeit, West-Bank, (PALESTINE)
9.	Prof. Mohamed Yousif	<a href="mailto:myousif@math.ohio-state.edu">myousif@math.ohio-state.edu</a>  <a href="http://www.math.osu.edu/people/myousif/">http://www.math.osu.edu/people/myousif/</a>  <a href="mailto:myousif@aucegypt.edu">myousif@aucegypt.edu</a>	Department of Mathematics , The Ohio State University (USA)  Mathematics Department American University in Cairo (EGYPT)

## 2. TEACHING

### 2.1. COURSES TAUGHT

#### Graduate Courses: (7 Courses)

Course ID	Course Name	Sem.	Textbook(s)
Math-533	<b>Complex Variables</b>	032	<b>A. Ahlfors</b> , <i>Complex Analysis (3<sup>rd</sup> ed.)</i> , McGraw-Hill Book Co., New York, (1978).
Math-696	<b>Reading &amp; Research II</b> ( <i>Modules over Non-Noetherian Domains</i> )	052	<b>L. Fuchs and L. Salce</b> , <i>Modules over Non-Noetherian Domains</i> , AMS Providence (2001).
Math-654	<b>Advanced Topics in Algebra</b> ( <i>Tilting Modules over Commutative Rings</i> )	061	1) <b>D. Anderson and R. Colpi</b> , <i>Equivalence and Duality for Module Categories: with Tilting and Cotilting for Rings</i> , Cambridge University Press (2004). 2) <b>R. Göbel &amp; J. Trlifaj</b> , <i>Approximations and Endomorphism Algebras of Modules</i> , De Gruyter Expositions in Mathematics: Vol. 41 (2006). 3) <b>H. Matsumura</b> , <i>Commutative Ring Theory</i> . Cambridge University Press (2004).
Math-553	<b>Homological Algebra</b>	062	<b>M. Osborne</b> , <i>Basic Homological Algebra</i> , Springer-Verlag, New York (2000).
Math-552	<b>Galois Theory</b>	071	<b>T. Hungerford</b> , <i>Algebra</i> , Holt, Rinehart and Winston (1974).
Math-551	<b>Abstract Algebra</b>	072	1) <b>P. Grillet</b> , <i>Abstract Algebra</i> , Springer (2007). 2) <b>S. Lang</b> , <i>Algebra</i> , 3 <sup>rd</sup> revised edition, 4 <sup>th</sup> corrected printing (2005).
Math-595	<b>Reading and Research I</b> ( <i>Quasi-Projective Modules over Commutative Rings</i> )	082	<b>F. Anderson and K. Fuller</b> , <i>Kent R. Rings and categories of modules</i> . 2 <sup>nd</sup> edition. <i>Springer-Verlag, New York, 1992.</i>

#### ❖ **KFUPM** (September 2003 - NOW)

- **091:** Finite Mathematics (Math-131)  
Intro. to Diff. Equations and Linear Algebra (Math-260)
- **082:** Ph.D. Thesis (Math-710)  
Reading and Research I (Math-595)  
Calculus II (Math-102)
- **081:** Ph.D. Thesis (Math-710)  
Abstract Algebra (Math-551)  
Applied Calculus II (Math-132)

- **072:** Ph.D. Thesis (Math-710)  
Abstract Algebra (Math-551)  
Calculus II (Math-102)
- **071:** Ph.D. Thesis (Math-710)  
Galois Theory (Math-552)  
Calculus I (Math-101)
- **063:** Calculus II (Math-102)
- **062:** Homological Algebra (Math-553)  
Calculus II (Math-102)
- **061:** Advanced Topics in Algebra (Math-654)  
*“Tilting Modules over Commutative Rings”*  
Differential Equations (Math-202)
- **052:** Reading and Research I (Math-695)  
*“Modules over Non-Noetherian Domains”*  
Calculus I (Math-101)
- **051:** Calculus I (Math-101)
- **042:** Elementary Differential Equations (Math-202)
- **041:** Calculus I (Math-101) Lecture + Recitation
- **032:** Complex Variables I (Math-533)  
Calculus II (Math-102)
- **031:** Calculus I (Math-101) Lecture + Recitation

❖ **Birzeit University** (September 2001 – August 2003)

- **022:** Real Analysis II (equiv. to Math-411)  
Differential Equations (equiv. to Math-202)  
Calculus II (equiv. to Math-102)
- **021:** Real Analysis I (equiv. to Math-311)  
Differential Equations (equiv. to Math-202)  
Calculus I (equiv. to Math-101)  
General Mathematics (equiv. to Math-131)
- **012:** Complex Analysis (equiv. to Math-430)  
Differential Equations (equiv. to Math-202)  
Calculus III (equiv. to Math-201)
- **011:** Differential Equations (equiv. to Math-202)  
Linear Algebra (equiv. to Math-280)  
Calculus I (equiv. to Math-101)

❖ **College for Training Teachers** (Sept. 1995 – Sept. 1996)

Abstract algebra, Number Theory, General Topology,  
Euclidean Geometry, Probability Theory

- ❖ **Birzeit University** (Sep. 1993 – Jan. 1996)
  - Linear Algebra & Differential Equations (equiv. to Math-260)
  - Mathematics for Finance (equiv. to Math-232)
  - General Mathematics (equiv. to Math-131)
  - Recitation for: Calculus I (equiv. to Math-101, Calculus II (equiv. to Math-102) & Calculus III (equiv. to Math-201).

## 2.2. COURSE DEVELOPMENT RESPONSIBILITIES

- I developed two graduate courses in Algebra, which were offered as “Advanced Topics” at KFUPM:
  - 1) *Modules over Non-Noetherian Commutative Domains*, taught as Reading and Research I, Math-695.
  - 2) *Tilting Modules over Commutative Rings*, taught as Advanced Topics in Algebra, Math-654.
  - 3) *Quasi-Projective Modules over Commutative Rings*, taught as Reading and Research I, Math-695.
- I was involved in a committee at *Birzeit University*, which had among its main goals a comprehensive review of the study programs at the mathematics department (required courses, elective courses, prerequisites etc.) as well as the development of new courses.
- I worked at *Birzeit University* on the idea of integrating IT (namely usage of the software *Mathematica*) in teaching calculus courses. I myself have experience in teaching Calculus III using *Mathematica*.

## 2.3. PUBLIC LECTURES

- ❖ *Active Learning Strategies for Calculus*, Math Education Seminar (KFUPM), Dec. 21<sup>st</sup>, 2004 (with H. Al-Attas & H. Tawfiq).

## 3. FACULTY DEVELOPMENT PROGRAM (DAD):

Since the beginning of the fall semester 2004, I am actively participating at the "Faculty Development Program" initiated by the *Deanship of Academic Development* at KFUPM (DAD). In addition to attending several workshops and seminars offered by DAD, I got the Junior Faculty Research Grant (JF-2005/03) for duration of 11 months. The grant consists of:

- **One-month summer grant:** during the semester (043), summer 2005.
- **Junior Faculty Research Project:** "*Tilting and Cotilting Modules over Commutative Rings*" (Senior Consultant: Prof. S. Kabbaj, KFUPM).

## 4. RESEARCH

### 4.1. PUBLICATIONS: (ALL PUBLICATIONS UNDER FAMILY NAME: Abuhlail)

#### ❖ Refereed Journals/Conference Proceedings:

\* [8] is a full-length original Conference Proceedings paper.

\* **Abuhlail, J. and Jarrar, M.,** *Tilting Modules over almost perfect domains*, **submitted.**

\* **Abuhlail, J., Jarrar, M., and Kabbaj, S.,** *Commutative rings in which every finitely generated ideal is a  $\star$ -module*, **submitted.**

\* **Abuhlail, J.,** *A note on Coseparable Coalgebras*, **submitted.**

[16] **Abuhlail, J. and Nauman, S.K.,** *Injective Morita Contexts, "Modules and Comodules"*, T. Brzezinski et. al. (editors)", Trends in Mathematics, Birkhäuser (2008), pp. 1-30.

[15] **Abuhlail, J.,** *A Zariski Topology for Bicomodules and Corings*, Applied Categorical Structures 16(1-2) (2008), 13-28. (ISI)

[14] **Abuhlail, J.,** *"Fully Coprime Comodules and Fully Coprime Corings"*, Applied Categorical Structures, ***Invited Paper(Special Issue):*** Categorical Methods in Hopf Algebras, Vol. 14 (2006), 379-409. (ISI)

[13] **Abuhlail, J.,** *"Duality Theorems for Crossed Products over Rings,"* Journal of Algebra. Vol. 288 (2005), pp. 212-240. (ISI)

[12] **Abuhlail, J.,** *"Hopf Pairings and (Co)induction Functors over Commutative Rings,"* Journal of Algebra and its Applications. Vol. 4 (2005), pp. 369-404. (ISI)

[11] **Abuhlail, J.,** *"Dual Entwining Structures and Dual Entwined Modules,"* Algebras and Rep. Theory. Vol. 8 (2005), pp. 275- 295. (ISI)

[10] **Abuhlail, J.,** *"A Note on Coinduction Functors between Categories of Comodules for Corings,"* Annali dell'Universita' di Ferrara, sez. VII, Scienze Matematiche: Joint Proceedings of "Ferrara Algebra Workshop" & "Swansea Workshop on Hopf Algebras.

[9] **Abuhlail, J.**, "On the Linear Weak Topology and Dual Pairings over Rings," *Topology and its Applications*, Vol. 149 (2005), pp. 161-175. (ISI)

[8] **Abuhlail, J.**, "Morita Contexts for Corings and Equivalences," *Hopf Algebras in Noncommutative Geometry and Physics*, S. Caenepeel and F. Van Oystaeyen (eds.), Marcel Dekker, New York: Lect. Not. Pur. App. Math. Vol. 239 (2005), pp. 1-19. (ISI Proceedings)

[7] **Abuhlail, J.**, "On Linear Difference Equations over Rings and Modules," *International Journal of Mathematics and Mathematical Sciences*. Vol. 2004, Issue 5 (2004), pp. 239-258.

[6] **Abuhlail, J.**, "On Coreflexive Coalgebras and Comodules over Commutative Rings," *Journal of Pure and Applied Algebra*. Vol. 194 (2004), pp. 1-38. (ISI)

[5] **Abuhlail, J.**, "Rational Modules for Corings", *Communications in Algebra*. Vol. 31 (2003), pp. 5793-5840. (ISI)

[4] **Abuhlail, J.**, Gomez Torrecillas, J. and Lobillo, F.J., "Duality and Rational Modules for Hopf Algebras over Commutative Rings," *Journal of Algebra*. Vol. 240 (2001), pp. 165-184. (ISI)

[3] **Abuhlail, J.**, Gomez-Torrecillas, J. and Wisbauer, R., "Dual Coalgebras of Algebras over Commutative Rings," *Journal of Pure and Applied Algebra*. Vol. 153 (2000), pp. 107-120. (ISI)

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### Local Journals:

[2] Saleh, M., Yousef, H. and **Abu Hlail, J.**, "The Number of Ring Homomorphisms from  $Z_m[\zeta] \times Z_n[\zeta]$  into  $Z_k[\zeta]$ ," *An Najah Univ. J. Res.*, Vol. 14 (2000), pp. 1-5.

[1] Saleh, M., Yousef, H. and **Abu Hlail, J.**, "The Number of Homomorphisms from  $Z_{m_1} \times \dots \times Z_{m_r}$  into  $Z_{k_1} \times \dots \times Z_{k_s}$ ," *Dirasat Natural and Engineering Sciences*. Vol. 25 (1998), pp. 326-329

❖ **Technical Reports:**

- **Abuhlail, J.**, “*Primeness and Coprimeness Conditions for Comodules and Corings*”, KFUPM, Technical Report # 389 (April 2008)
- **Abuhlail, J.**, “*Tilting and Cotilting Modules over Commutative Rings*”, KFUPM, Technical Report # (June, 2007).
- Saleh, M., & Yousef, H. and **Abu Hlail, J.**, "*On the Number of Group and Ring Homomorphisms,*" Schriftenreihe des Fachbereichs Mathematik, Duisburg Universität (Germany). SM-DU No. 300 (1995), pp. 1-6.

❖ **Arabic Books:**

- **Olympiad Problem Book, Part I;** KFUPM (2007) (with R. Alassar and M. Abu-Sbeih).
- **Olympiad Problem Book, Part II;** Under Preparation (with R. Alassar and M. Abu-Sbeih).

**4.2. NON-SELF CITATIONS**

- **63** non-self citations in **47** manuscripts by **39** authors (not including preprints):

<b>[Paper]</b>	<b>[3]</b>	<b>[4]</b>	<b>[5]</b>	<b>[8]</b>	<b>[9]</b>	<b>[10]</b>	<b>[11]</b>	<b>[12]</b>	<b>[14]</b>	<b>[15]</b>	<b>[16]</b>	<b>Total</b>
<b># of non-self citations</b>	5	9	18	18	4	1	1	1	4	1	1	<b>63</b>

- Numbers in square brackets below refer to the items in the list of *Publications*.
- Names of authors are given in alphabetical order.

**Citations in Preprints:**

- Q. Guo, S. Wang and X. Zhou, "*Weak Hopf Galois Extensions and Nikshych's Duality Theorem*"; (Preprint 2008) **Cited Paper: [4]**
- L. El Kaoutit, L. and J. Gomez-Torrecillas, Coinduction functor and simple comodules (Preprint 2009) arXiv: 0902.2116v1 **Cited Paper: [5]**

**2009 (10 Non-self Citations)**

**(47)** T. Brzezinski, *Comodules and corings*, Handbook of Algebra Vol 6, edited by M. Hazewinkel, Elsevier, 2009, pp. 237-318. **Cited paper: [4], [5], [8], [10], [14], [15]**

**(46)** L. El Kaoutit and J. Gomez-Torrecillas *Corings with Decomposition and Semiperfect Corings*, Algebras and Representation Theory 12 (2009), 343–356. **Cited paper: [5]**

(45) 1) G. Böhm and J. Vercruyssen, "Morita Theory of Comodules"; Comm. Algebra 37 (9) (2009), 3207-3247. **Cited paper: [8]**

(44) I. Wijayanti and R. Wisbauer, "On Coprime Modules and Comodules", Comm. Algebra. 37 (4), 1308-1333. **Cited paper: [14]**

(43) Yange Xu and Shouchuan Zhang, "Duality Theorem and Hom Functor in Braided Tensor Categories"; International Journal of Modern Mathematics 4 (2) (2009), 109-134. **Cited papers: [4]**

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### **2008 (8 Non-self Citations)**

(42) L. El Kaoutit, "Wide Morita Contexts in Bicategories", AJSE 33(2C) (December 2008), 153-174. **Cited paper: [16]**

(41) P. Jara, L. Merino, G. Navarro and J F. Ruiz, "Prime path coalgebras", AJSE 33(2C) (December 2008), 273-284. **Cited paper: [14]**

(40) Q. Guo, S. Wang and Z. Yan, "Inner deformations of entwined modules and their simpleness"; AJSE 33(2C), 205-223 (December 2008) **Cited Paper: [11]**

(39) XL Fang and DM Lu, "Group Corings and (invertible) weak group entwining structures", Comm. Algebra 36 (10), 3820-3841 (2008). **Cited paper: [5]**

(38) L. El Kaoutit and J. Gómez-Torrecillas, "Corings with exact rational functors and injective objects"; "Modules and Comodules", T. Brzezinski et. al. (editors)", Trends in Mathematics, Birkhäuser (2008), 185-202. **Cited paper: [5]**

(37) M. Iovanov and Vercruyssen, J., "Co-Frobenius corings and adjoint functors"; J. Pure Appl. Algebra, 212(9) (2008), 2027-2058. **Cited papers: [5], [9]**

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### **2007 (13 Non-self Citations)**

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- (33) G. Böhm and T. Brzezinski, "Pre-torsors and equivalences", *J. Algebra* 317 (2007), 544-580. **Cited paper: [8]**
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- (31) Lomp, Ch. and Sant' Ana, A., "Chain and Distributive Coalgebras", *Journal of Pure and Applied Algebra*, 211(3) (2007), 581-595. **Cited paper: [14]**
- (30) Vercruysse, J., "Galois Theory for Corings and Comodules", Ph.D. Dissertation, Vrije Universiteit Brussels (2007). **Cited papers: [5], [8], [9]**
- (29) Gomez-Torrecillas, J. and Vercruysse, J., "Comatrix corings and Galois comodules over firm rings", *Algebras and Representation Theory*, 10(3) (2007), 271-306. **Cited paper: [5]**
- (28) Caenepeel, S., De Groot, E. and Vercruysse, J., "Galois Theory for Comatrix Corings: Descent Theory, Morita Theory, Frobenius and Separability Properties", *Transactions of the American Mathematical Society* 359 (2007), 185-226. **Cited papers: [8], [9]**
- (27) Bohm, G. and Vercruysse, J., "Morita theory for coring extensions and cleft bicomodules" *Advances in Mathematics* 209 (2007), 611-648. **Cited paper: [8]**

### **2006 (6 Non-self Citation)**

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- (23) W. Al-Sibyani, "Wide Morita Contexts", M.Sc. thesis. KAAU, Saudi Arabia (2006). **Cited papers: [4], [9]**
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### **2005 (8 Non-self Citations)**

- (21) De Groot, E., "Comatrix corings applied to weak and partial Galois theory", Ph.D. dissertation, Vrije Universiteit Brussel (May 2005). **Cited paper: [8]**

(20) Brzezinski, T., "*A Note on Coring Extensions*", Annali dell'Universita' di Ferrara, sez. VII, Scienze Matematiche: Joint Proceedings of "Ferrara Algebra Workshop" & "Swansea Workshop on Hopf Algebras", June 2004, LI (2005), pp. 15-27. Cited paper: [5]

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(15) El Kaoutit, L. and Gomez-Torrecillas, J., "*Morita Duality for Corings over Quasi-Frobenius Rings*", Hopf Algebras in Noncommutative Geometry and Physics", S. Caenepeel and F. Van Oystaeyen (eds.), Marcel Dekker, New York: Lecture Notes in Pure and Applied Mathematics. 239 (February 2005), pp. 137-153. Cited paper: [5]

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#### 2004 (10 Non-self Citations)

(14) Quo Guangquan, "*The corings structure of dual ring*", Journal of Chuzhou University, 6(4) (2004), pp. 90-92. Cited paper: [5]

(13) El Kaoutit, E., J. Gomez-Torrecillas and Lobillo, J., "*Cosemisimple Corings*", Algebra Colloquium, 11(4) (2004), pp. 427-442. Cited paper: [5]

(12) El Kaoutit, E., "*Co-anillos y Categorías de Co-módulos*" (Spanish), Tesis Doctoral, Universidad de Granada, Spain (September 2004). Cited paper: [8], [5], [4]

(11) Caenepeel, S., "*Galois Corings from the Descent Point of View*", Galois Theory, Hopf Algebras and Semiabelian Categories, Fields Institute Communications, 43 (July 2004), pp. 163-186. Cited papers: [8], [5]

(10) Caenepeel, S., Vercruyssen, J. and Wang, S., "*Morita Theory for Corings and Cleft Entwining Structures*", Journal of Algebra. Vol. 276(1) (June 2004), pp. 210-235. Cited paper: [8]

(9) Kurakin, V.L., "Hopf Algebras of Linear Recurring Sequences", Diskretnaya Matematika, Vol. 16 (2004), pp. 7-43; translated in Discrete Mathematics and Applications, 14(2) (April 2004), pp. 115-152. Cited papers: [3], [4]

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**2003 (6 Non-self Citations)**

(8) Brzezinski, T. & Wisbauer, R., "Corings and Comodules", Lond. Math. Soc. Lec. Not. Ser., Vol. 309, Cambridge University Press (September 2003). Cited paper: [4]

(7) El Kaoutit, L. and Gomez-Torrecillas, J., "Comatrix corings: Galois Corings, Descent Theory, and a Structure Theorem for Cosemisimple Corings", Mathematische Zeitschrift, 244(4) (August 2003), pp. 887-906. Cited paper: [8]

(6) Brzezinski, T., "The Structure of Corings with a Group-like Element", Noncommutative Geometry and Quantum Groups, Banach Centre Publications, 61 (2003), pp. 21-35. Cited paper: [5]

(5) Brzezinski, T., "Towers of Corings", Communications in Algebra. Vol. 31, Num. 4 (2003), pp. 2015-2026. Cited paper: [5]

(4) Castano Iglesias, F., Gomez-Torrecillas, J. and Wisbauer, R., "Adjoint Functors and Equivalences of Subcategories", Bulletin des Sciences Mathématiques, 127(5) (July 2003), pp. 379-395. Cited paper: [8]

(3) Guo Guangquan and Chen Jianhua, "Integrals of Entwining structure", JOURNAL OF NANJING XIAOZHUANG COLLEGE 19(4) (2003), pp 49-53. Cited paper: [5]

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**2002 (2 Non-self Citations)**

(2) Kurakin, V.L., "A Hopf Algebra Dual to a Polynomial Algebra over a Commutative Ring", Rossijskaya Akademiya Nauk. Matematicheskie Zametki. Vol. 71 (2002), pp. 677-685; translated in Mathematical Notes, 71(5-6) (May 2002), pp. 617-623. Translated from Cited paper: [3]

(1) Wisbauer, R., "On the Category of Comodules for Corings", Mathematics and Mathematics Education, Proceedings of the 3<sup>rd</sup> International Palestinian Conference, Bethlehem (Palestine) 9-12 August, 2000. S. Elaydi et al. (ed.), World Scientific, New Jersey (May 2002), 325-336. Cited paper: [4]

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#### 4.3. RESEARCH PROJECTS (FUNDED BY KFUPM):

#	Number	Title (Consultant)	Duration (Budget SR)	Period	Status
[7]	FT090007	Almost Perfect Rings	18 months	1.9.2009 To 28.2.2011	In Progress
[6]	FT08009	Zariski-like Topologies for Modules over Commutative Rings	18 months (41,520 SR)	1.3.2008 to 31.8.2009	In Progress
[5]	IN080400	Semibialgebras and Hopf Semialgebras	24 months (69,120 SR)	15.03.2008 to 14.03.2010	Completed
[4]	IN070351 (Coinvstigator: M. Jarrar; Senior Consultant: Prof. S. Kabbaj)	The Structure of Tilting Modules over Commutative Rings	24 months (62,000)	01.09.2007 to 31.08.2009	Completed
[3]	FT060010	Semicorings and Semicomodules	12 months (28,800)	01.09.2006 to 31.08.2007	Completed
[2]	IN000296	Primeness and Coprimeness Conditions for Comodules & Corings	27 months (48,900)	15.12.2005 to 14.03.2008	Completed
[1]	JF050003 (Senior Consultant: Prof. S. Kabbaj)	Tilting and Cotilting Modules over Commutative Rings	10 months (29,167)	28.07.2005 to 27.06.2006	Completed

#### 4.4. SPECIAL ASSIGNMENTS (KFUPM):

#	Title	Funding	Status	Period
[1]	Modules over Non-Noetherian Domains (Senior Consultant: Prof. S. Kabbaj)	DSR (KFUPM)	Closed	August 2005
[2]	Olympiad Problem Book, Part I (in Arabic)	DSR (KFUPM)	Closed	July 2007

#### 4.5. DEVELOPING ONLINE COURSES (KFUPM):

#	Title	Funding	Status	Period
[1]	Calculus I With Dr. M. Abu-Sbeih & Dr. T. Mustafa	DAD (KFUPM)	In Progress	August 2008 Sept. 2009 – July 2010
[2]	Calculus II With Dr. M. Abu-Sbeih & Dr. R. Alassar	DAD (KFUPM)	In Progress	August 2009 Sept. 2009 – July 2009

#### 4.6. THESIS SUPERVISION (STUDENTS):

Student Name	Affiliation	Deg.	Thesis Title	Starting	Ending
M. Jarrar	KFUPM	Ph.D.	Tilting and Star-Module Theory in Commutative Rings	1.9.2006	30.6.2009 (Expected)
N. Al- Sulaiman	Dammam Girls College	Ph.D.	Hopf Semi-Algebras	1.9.2006	31.8.2009 (Expected)
I. Abu-Sakur	Palestine Polytechnic University	M.Sc.	Corings over Bimodules	1.9.2008	31.8.2009 (Expected)

#### 4.7. DEFENSE COMMITTEE MEMBERSHIP:

- **Waheeda Al-Sibyani**, *Wide Morita Contexts*, (KAAA), June, 5<sup>th</sup>, 2006.
- **Khaled Al-Hazmy**, *Reductions and Cores of Ideals*, May 25<sup>th</sup>, 2008.

#### 4.8. COMMUTATIVE ALGEBRA RESEARCH LAB (CARL)

I am an active member of the *Commutative Algebra Research Lab (CARL)*, directed by Prof. S. Kabbaj, KFUPM. In addition to attending lecture series and seminars organized at the research lab, I delivered since September 2004 about 30 seminars at the “*Commutative Algebra Weekly Seminar*”.

#### 4.9. LECTURE SERIES ATTENDANCE:

- 1) "*Corings and Comodules*", June 14<sup>th</sup> - July 30<sup>th</sup>, 2004, Heinrich Heine Universität (**Düsseldorf-Germany**): by Prof. R. Wisbauer.
- 2) "*Introduction to Categories of type  $\sigma[M]$* " February 20-27, 2005 (KFUPM), by Prof. R. Wisbauer.
- 3) "*Commutative Rings*" (after Kaplansky's Book), Semester 032 (KFUPM): by Prof. S. Kabbaj.
- 4) "*Commutative Algebra*" (after the book of Atiyah and Macdonald), Semester 061 (KFUPM): by Prof. S. Kabbaj.

#### 4.10. PRESENTATIONS (OVER 50 AT DIFFERENT LEVELS)

##### ❖ INTERNATIONAL CONFERENCES/WORKSHOPS:

- 11) "*Injective Morita Contexts (Revisited)*", Poster. Homological and geometric methods in algebra, August 10-14, 2009 (**Trondheim, Norway**).
- 10) "*Monads and Comonads in Categories of Modules over Semirings*", 21<sup>st</sup> International Conference on Near-rings, Near-fields and related topics, July 26<sup>th</sup> - August 1<sup>st</sup>, 2009 Abbey Vorau (**Styria, Austria**).
- 9) "*Endo-prime and Endo-coprime Modules over Commutative Rings*", Pre-ICM Convention on Mathematical Sciences, University of Delhi, December 18-20, 2009 (**Delhi, India**).
- 8) "*Semicorings and Semicomodules*", Non-Commutative Structures in Mathematics and Physics, July 22-26, 2008 (**Brussels, Belgium**).
- 7) "*Zariski-like Topologies for Modules over Commutative Rings*", Fifth international Fez Conference on Commutative Algebra and its Applications, June 23-28, 2008 (**Fez, Morocco**).
- 6) "*Elementary Corings and Morita Takeuchi Contexts*", Conference "Non-Commutative Rings and Geometry, Sept. 18-22, 2007 (**Almeria, Spain**).
- 5) "*The Coprime Topology for Corings*", Algebras and Coalgebras: Tools for Physics, Geometry and Computer Science (**Cairo, Egypt**), March 25-20, 2006.
- 4) "*Co-endoprime Comodules*", International Joint Meeting of AMS, DMV, ÖMG (**Mainz, Germany**), June 16-19, 2005.
- 3) "*Coprime and Coprimitive Corings*," 2<sup>nd</sup> International Conference on Mathematical Sciences, (**Al-Ain, UAE**), Dec. 12-14, 2004.
- 2) "*On Coinduction Functors between Categories of Comodules for Corings*," Ferrara Algebra Workshop, (**Ferrara, Italy**), June 16-19, 2004.
- 1) "*A Duality Theorem for Crossed Products over Commutative Rings*," 3<sup>rd</sup> International Palestinian Conference on Mathematics & Mathematical Education, (**Bethlehem, Palestine**), Aug. 9-12, 2000.

❖ **INVITED SEMINARS (OUTSIDE KFUPM)**

- 8) Corings by Examples, Palestine Polytechnic University (**Hebron, Palestine**), July 15, 2008.
- 7) Induction and Coinduction for Categories Comodules, King Abdul Aziz University (**Jeddah, KSA**), June 6th, 2006
- 6) Semicorings and Semicomodules, [Fourth UAE Math Day](#), April 27th, 2006 (**Sharjah - UAE**).
- 5) (Co)Primeness Properties of Comodules and Corings, Seminário de Representação de Álgebras e Geometria, Da Universidade Do Porto (**Proto, Portugal**), June 23 2005.
- 4) (Co)Induction Functors for Categories of type  $\sigma[M]$  with Applications to Categories of Comodules for Corings, Algebra Oberseminar, Heinrich-Heine Universität (**Düsseldorf, Germany**), July 7<sup>th</sup>, 2004.
- 3) Coprime and Cosemiprime Comodules, Algebra Oberseminar, Heinrich-Heine Universität (**Düsseldorf, Germany**), July 28<sup>th</sup>, 2004.
- 2) On Dual Coalgebras over Commutative Rings, Algebra Seminar, Manchester University (**Manchester, England**), November 1999.
- 1) Linear Recursive Sequences over Modules: a Coalgebraic Approach, Seminario de Algebra, Universidad de Almeria (**Almeria, Spain**), May 7<sup>th</sup>, 1999.

❖ **LECTURE SERIES: Corings and Comodules**, Dammam Girls College, about 8 - 10 hours (March 2008).

❖ **TALKS AT KFUPM:**

- 1) *The Structure of Tilting Modules over Commutative Rings*”, Project Seminar, June 2007.
- 2) *“Corings and Comodules (A Brief Survey)”*, Mathematics Colloquium, May 20th, 2007.
- 3) *“Coreflexive Coalgebras and Comodules over Commutative Rings”*, Mathematics Colloquium, May 7th, 2006.

- 4) "*Active Learning Strategies for Calculus*", with Husain Al-Attas & Hattan Tawfiq: 21.12.2004 Mathematics Education Seminar).
- 5) "*On Linear Difference Equations over Rings and Modules*", Mathematics Colloquium, October 10<sup>th</sup>, 2004.
- 6) "*Coprime Comodules*", Project Seminar, April 18<sup>th</sup>, 2004.
- 7) "*Primeness and Coprimeness Properties for Comodules and Corings*", Mathematics Colloquium, June 12<sup>th</sup>, 2005.

❖ **Commutative Algebra Weekly Seminar (KFUPM):**

Since September 2004, I delivered about (**30 seminars**) at the commutative Algebra Weekly Seminar organized by Prof. S. Kabbaj, the director of the "Commutative Algebra Research Lab". The topics included:

- Overrings of the Form  $D+M$ .
- Valuations and Valuation Domains.
- Prüfer Domains of Finite Character.
- $*$ -Modules and  $*-n$ -Modules.
- Tilting Modules over Integral Domain.
- Zariski-like Topologies for Modules
- Prime and Copirme Spectra of Modules

**4.11. EVENTS ATTENDED (WITHOUT PRESENTATION):**

- 1) *Felix-Klein Special Colloquium*, Heinrich-Heine Universität, (**Düsseldorf-Germany**), July 30<sup>th</sup>, 2004.
- 2) *From Arithmetic to Cryptology*, University of Duisburg-Essen, Essen Campus (**Essen-Germany**) June 8-10, 2004.
- 3) *Hopf Algebras in Non-Commutative Geometry and Physics*, Koninklijke Vlaamse Academie van Belgie voor Wetenschappen en Kunsten (**Brussels-Belgium**) May 28<sup>th</sup> - June 1<sup>st</sup>, 2002.
- 4) *Hopf Algebras and Quantum Groups*, Vrije Universiteit Brussel (**Brussels-Belgium**), July 15-18, 1998.

## 5. PROFESSIONAL ACTIVITIES

### 5.1. EDITORIAL WORK:

- *Associate Managing Editor* of AJSE-Mathematics (since April 2009)  
<http://ajse-mathematics.kfupm.edu.sa>
- *Editor*, AJSE-Mathematics (since March 1 2009).
- *Lead Technical Editor* and *co-editor* of the special theme issue “Interactions of Algebraic and Coalgebraic Structures (Theory and Applications)” of AJSE Volume 33 (2C), December 2008.  
[http://ajse.kfupm.edu.sa/title\\_new.asp?issue=200812&display=C%20-%20Theme%20Issue](http://ajse.kfupm.edu.sa/title_new.asp?issue=200812&display=C%20-%20Theme%20Issue)

### 5.2. REFEREEING JOB:

I refereed several papers for the following journals:

- AJSE (KFUPM, KSA)
- AJSE-Mathematics (KFUPM, KSA)
- Algebra Colloquium (Springer)
- Annali dell'Università di Ferrara (University of Ferrara, Italy)
- Communications in Algebra (Taylor & Francis, USA)
- International Electronic Journal of Algebra (Turkey)
- International Journal of Mathematical Manuscripts
- International Journal of Mathematics and Mathematical Sciences (Hindawi)
- Mediterranean Journal of Mathematics (Birkhäuser)

### 5.3. REVIEWS:

\* Since May 2005, I am a reviewer by the *Mathematical Reviews* (A publication of the *American Mathematical Society*), I refereed so far **7 papers**.

\* Since May 2005, I am reviewer by *ZentralblattMath* (A publication of the *European Mathematical Society*). I refereed so far more **10 papers**.

\* I reviewed several research project proposals at KFUPM as well as other universities.

#### 5.4. WORKSHOP ORGANIZATION:

I co-organized two scientific events at the Department of Mathematical Sciences (KFUPM):

- *ALGEBRA & APPLICATIONS DAY 2005*", March 1<sup>st</sup>, 2005.
- *ALGEBRA WORKSHOP 2006*, March 19-21, 2006.
- Training for Math Contests, March 22-24, 2008.

#### 5.5. LECTURE SERIES/SHORT COURSE ORGANIZATION:

I co-organized (with Dr. Abdullah Laradji) several lectures series at KFUPM:

- *Introduction to Categories of Type  $\sigma[M]$*  (Feb. 20-28, 2005), by Prof. R. Wisbauer from Heinrich-Heine Universität (**Düsseldorf- Germany**).
- *Adjoint functors - a universal tool for mathematics* (March 21 – April 4, 2009), by Prof. R. Wisbauer from Heinrich-Heine Universität (**Düsseldorf- Germany**).
- *Semiperfect Modules and Related Topics* (April 5 – April 10, 2009), by Prof. R. Wisbauer from the Heinrich-Heine Universität (**Düsseldorf- Germany**).

#### 5.6. CONSULTING:

I have already worked as a peer consultant for school teachers of UNRWA, as part of my job at the "RamAllah College for Training Teachers", Sep. 1995 – Sept. 1996 (RamAllah – Palestine).

## 6. SERVICES:

### 6.1. KSA LEVEL:

- Member of the “Comprehensive Exam Committee” for Dammam Girls College (March 2008).
- Member of Defense Committee for M.Sc. thesis at KAAU (June 2006).

### 6.2. UNIVERSITY LEVEL:

- Member, the Organizing Committee for the "Second AJSE Workshop", to be held on December 20<sup>th</sup>, 2009.
- Member of the Scientific Committee for the KFUPM Math Olympiad and its Arabic Translation Subcommittee (2007/2008 & 2008/2009).
- Chairman, Training and Resources Committee for the KFUPM Math Olympiad (2009/2010).
- Member, Organizing Committee for the KFUPM Math Olympiad (2009/2010).
- Advisor, "*Academic Improvement Program*" (2005 - 2008).
- Ad-hoc committee for Math-130 (spring 2007, Semester 062)

### 6.3. DEPARTMENT LEVEL

#### ❖ 2000/2010:

- Member of the Research Committee.

#### ❖ 2008/2009:

- Member of the Translation Committee.

#### ❖ 2007/2008:

- Member of the Translation Committee.
- Member of the “Defense Committee” for Master thesis by Mr. K. Al-Hazmi (May 2008).

❖ 2006/2007:

- Member of the Comprehensive Exam Committee.
- Coordinator of the Math Education Seminar

❖ 2005/2006:

- Member of the "*Algebra and Number Theory Group*"
- Member of the "*Commutative Algebra Research Lab*".

❖ 2005/2006:

- Member of the "*IT in Teaching Committee*"
- Member of the "*Coordinating Committee for Math-101*", Spring Semester 052.
- Member of the "*Algebra and Number Theory Group*"
- Member of the "*Commutative Algebra Research Lab*".
- Coordinator of the visit of *Dr. Christian Lomp* (Porto University), March 15-24, 2006.
- Co-organizer of the "*Algebra Workshop 2006*", March 19-21, 2006.

❖ 2004/2005:

- Member of the "*Department Research Committee*"
- Member of the "*Algebra and Number Theory Group*"
- Member of the "*Commutative Algebra Research Lab*".
- Member of the "*Ad-hoc Committee for choosing textbooks for graduate courses in Algebra: Math 552 & Math-553*".
- Coordinator (with Dr. Abdullah Laradji) for the visit of Prof. R. Wisbauer to KFUPM, February 19<sup>th</sup> - March 1<sup>st</sup>, 2005 including the

lectures series "Introduction to Categories of Type  $\sigma[M]$ " delivered by Prof. Wisbauer during his visit.

- Co-organizer of the "*Algebra & Applications Day 2005*", which was held on March 1<sup>st</sup>, 2005.