

Brief Report

on the visit to

Prof. Robert Wisbauer

Mathematisches Institut der Heinrich-Heine Universität
(Duesseldorf-Germany)

June 11th - August 8th, 2004

1. I had fruitful discussions with Prof. Wisbauer on several topics especially some of the results that appeared in his new book "Corings and Comodules" (with Tomasz Brezizinski), semiperfect corings, induction functors between categories of comodules etc.
2. I explored with Prof. Wisbauer new research possibilities to be considered especially the topics of coprime corings and localization for corings.
3. I discussed with Prof. Wisbauer the possibilities of collaboration with colleagues of the Algebra Group at the "Department of Mathematical Sciences" at my current university "King Fahd University of Petroleum & Minerals - Saudi Arabia" through mutual visits.
4. During my stay in Duesseldorf I attended a course titled "*Koringe und Komoduln*" given in the summer semester by Prof. Wisbauer.
5. During my visit I wrote the first draft of my new paper "*Coprime Comodules*" inspired by discussions on the subject with Prof. Wisbauer and Inda Wijayanti, a current Ph.D. student of Prof. Wisbauer.
6. I held two seminars (90 Minutes each)
 - on July 7th, 2004 "*(Co)Induction Functors for Categories of type $\sigma[M]$ with Applications to Categories of Comodules for Corings*"
 - on July 28th, 2004 "*Coprime and Cosemiprime Comodules*".
7. At the Heinrich-Heine Universität I attended:
 - (a) *Felix-Klein Special Colloquium*: July 30th, 2004
 - (b) one "*Habilitation Colloquium*"
 - (c) several colloquiums and seminars held by visitors of the "Mathematisches Institut".
 - (d) several "*Algebra Oberseminars*" held by students of Prof. Wisbauer.
8. I attended the conference "**From Arithmetic to Cryptology**: July 8-10, 2004 at the Duisburg-Essen Universität (Essen Campus)".
9. I gave a talk at the "**Ferrara Algebra Workshop**: June 16-19, 2004 (Ferrara University)".
10. I agreed with Prof. Wisbauer to continue the collaboration on research topics of joint interest especially on *coprime corings and comodules*.



Dr. Jawad Abuhihlail

Dhahran, December 10th, 2004