

Personal Data

I am a lecturer at the Department of Pure Mathematics, Faculty of Mathematical Sciences, University of Khartoum, Khartoum, Sudan. Below is a brief Biography for myself.

Personal Details:

Title Dr

Surname Basheer

First Names : Ayoub Basheer Mohammed

Nationality : Sudanese

Date of Birth : December 25, 1982

Place of Birth : Elhasahisa, Sudan

Material Status : Married to Muna Balla Elshareef, 1 child (Fatima)

Tel (Home) : +2733 386 6891

Tel (Work) :+2733 260 6452

Fax :+2733 260 5648

Cellular :+2776 999 6789

Email : ayoubac@aims.ac.za or basheera@ukzn.ac.za

Academic Qualifications

PhD in Mathematics, School of Mathematics, Statistics & Computer Science, University of KwaZulu-Natal (UKZN), Pietermaritzburg Campus, South Africa. Title of thesis: Clifford-Fischer Theory Applied to Certain Groups Associated with Symplectic, Unitary and Thompson Groups. Supervisor: Professor Jamshid Moori, Date of award 1 August 2012, Date of graduation: 23 April 2013.

MSc in Mathematics, School of Mathematical Sciences, University of KwaZulu Natal, Pietermaritzburg Campus, South Africa. Average: CUM LAUDE (Distinctions mark of 75% or higher). Title of Dissertation: Character Tables of the General Linear Group and Some of its Subgroups. Supervisor: Professor Jamshid Moori. External Examiners: 1. Professor R T Curtis, School of Mathematics, Watson Building, University of Birmingham, Edgbaston, Birmingham B15 2TT, Tel: +44 (0) 121 414 6595. Fax: +44 (0) 121 414 3389. Email: r.t.curtis@bham.ac.uk 2. Professor R L Fray, Department of Mathematics, University of Western Cape, Cape Town. Email: rfray@uwc.ac.za, Period: February 2007 – November 2008. Date of Award: Jan 20, 2009. Postgraduate Diploma in Mathematical Sciences (AIMS), University of Cape

Town, Cape Town, South Africa. Second Class – Division One (grade 70%). September 2005 – June 2006. Date of Award: June 23, 2006.

BSc (Honors) Joint subjects of Mathematics and Computer Sciences, Faculty of Mathematical Sciences, University of Khartoum, Khartoum, Sudan. Average: Second Class – Division One (grade 69.67%). Period: December, 1999 – November, 2004. Date of Award: November 8, 2004

Prizes

The S2A3 Medal of the South African Association for the Advancement of Science, a medal given for the best MSc theses produced at the University of KwaZulu Natal in Natural Sciences for 2009. See page 13 of the following link (<http://www.sciag.ukzn.ac.za/documents/DECEMBER%20NEWSLETTER%202009.pdf>) or page 7 of (<http://www.ukzn.ac.za/publications/NDABA%20%20OCTOBER%202009.pdf>) or through (<http://www.ukzn.ac.za/UKZNonline/V3/18/Issue18.html>). The Doctoral Research Scholarship of the University of KwaZulu-Natal in Natural Sciences for the year 2009.

The prize of the Minister of Higher Education of Sudan for the second best mathematics student entering Sudanese Universities for the academic year 1999.

Seminars & Talks

South African Mathematical Society (SAMS) 52nd Annual Congress, 02 – 04 November 2009, University of Johannesburg, Johannesburg, South Africa. Groups St Andrews 2009 in Bath, Title of talk: On the Regular Semisimple Elements and Primary Classes of $GL(n,q)$. 3 August 2009, University of Bath , Bath, United Kingdom. Accessed at:

(<http://www.groupsstandrews.org/2009/Talks/Basheer.pdf>).

General talk entitled with: On the Structure and Character Tables of $GL(n,q)$, 21 May 2009, Faculty of Mathematical Sciences, University of Khartoum, Khartoum, Sudan.

Postgraduate Seminars, Title of talk: Some Subgroups and Steinberg Characters of $GL(n,q)$, 23 March 2009, School of Mathematical Sciences, University of KwaZulu-Natal, Pietermaritzburg Campus, South Africa.

South African Mathematical Society (SAMS) 51st Annual Congress, Title of talk: Conjugacy Classes and some Ordinary Irreducible Characters of $GL(n,q)$, 5 November 2008, Howard College (UKZN) Durban, South Africa.

KwaZulu Natal Mathematical Annual Meeting, Title of talk: Conjugacy Classes of $GL(n,q)$ and Character Tables of $GL(2,q)$, Westville, Durban, May, 31, 2008. South African Mathematical Society (SAMS) 50th Annual Congress, 31 October – 02 November 2007, University of Cape Town, Cape Town, South Africa.

KwaZulu Natal Mathematical Annual Meeting, May 17, 2007, Westville Campus, University of KwaZulu-Natal, Durban, South Africa.

Research Interest

My research interest is on the Representation Theory of Finite Groups. In particular, the area of Representations and Characters of the Finite General Linear Group $GL(n,q)$ and some of the associated groups. I am also interested on constructing the character tables of group extensions by means of Clifford Fischer Theory.

To see some of my pictures, press on Photo Gallery on your left hand side.

This webpage is still under construction