

PERSONAL DATA:

Name: Hassan Abdelhalim Abdatallah Seed Ahmed.

Gender: male

Nationality: Sudanese.

Birth: Sep., 1968.

Religion: Muslim.

Marital Status: Married (four children)

Languages: Arabic and English

Permanent address:

Department of Physics, University of Khartoum, Faculty of Education,

PO Box 4061, Omdurman, Sudan.

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Higher Education:

- Philosophiae Doctor (physics), University of the Free State 2012
- Master of science (physics), University of Khartoum 2006
- Bachelor of science & education (Honours) second class division one (physics), University of Khartoum 1994

Title of Ph.D. Thesis: *Luminescence from lanthanide ions and the effect of co-doping in silica and other hosts*

Title of M.Sc. Thesis: *Synthesis and physical characterization of Cr^{+3} doped $Mg_{0.9}Mn_{0.1}Fe_2O_4$*

Conferences and symposia

1. 2010: HAA Seed Ahmed, MM Duvenhage, OM Ntwaeaborwa and RE Kroon. Luminescence from rare-earth doped silica prepared by the sol-gel method. 55th Conf. of South Africa Institute of Physics (CSIR, Pretoria).
2. 2011: HAA Seed Ahmed, JR Botha, WD Roos, OM Ntwaeaborwa and RE Kroon. Energy transfer in Ce/Tb co-doped sol-gel silica. 4th African Laser Centre Student Workshop (Zevenwacht Wine Estate, Stellenbosch).
3. 2012 RE Kroon, OM Ntwaeaborwa, HC Swart and HAA Seed Ahmed. Lifetime measurements of Ce and the energy transfer mechanism in Ce,Tb co-doped LaF₃. Annual HASYLAB Report (DESY synchrotron, Hamburg, Germany)
4. 2012 HAA Seed Ahmed, OM Ntwaeaborwa and RE Kroon. Interaction mechanism for energy transfer from Ce to Tb ions in silica. 5th African Laser Centre Student Workshop (Safari Lodge, Windhoek, Namibia).

Work Experience :

2013 till now: Postdoctoral Fellow, University of the Free State, Bloemfontein, South Africa.

2012-2013: Assistant Professor (physics), University of Khartoum, Omdurman, Sudan.

2009-2012: Ph.D. student, University of the Free State, Bloemfontein, South Africa.

2003-2009: Lecturer (physics), University of Khartoum, Omdurman, Sudan.

1999-2003: Teacher, Ministry of Education, Kingdom of Saudi Arabia.

1998-1999: Teaching assistant (physics), University of Khartoum, Omdurman, Sudan.

1986-1998: Teaching assistant (physics), Gezira University, Wadmedani, Sudan.

1995-1996: Teacher, Ministry of Education, Sudan.

Research Interests:

Synthesis and characterization of novel nanophosphor using techniques such as XRD, TEM, PL, CL, XPS, ... etc. Also I interest in the use of simulations (theoretical).