



Ahmed M.H. Ahmed

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Academic qualifications:

1. PhD. in Astronomy, November 2015, Faculty of Science, University of Western Ontario.

Thesis Title: “Nitrogen Abundances in Early-Type Be Stars”, Supervisor: Dr. T.A.A. Sigut.

2. M.Sc. in Astronomy, August 2011, Faculty of Science, University of Western Ontario.

Project Title: “The Temperature Structure of Be Star Disks in the Small Magellanic Cloud”, Supervisor: Dr. T.A.A. Sigut.

3. B.Sc. in Physics and Astronomy, May 2004, Faculty of Science, Cairo University.

Professional Experience:

1. Teaching & Research Assistant, Astronomy department, Faculty of Science, Cairo University (July 2016 - Present).
2. Research Assistant in Astronomy & Physics department, Faculty of Science, University of Western Ontario (from November 2015 – June 2016).
3. Teaching & Research Assistant in Astronomy & Physics department, Faculty of Science, University of Western Ontario (from September 2009 – August 2015).
4. Teaching & Research Assistant, Astronomy department, Faculty of Science, Cairo University (from Dec.2005 - August 2009).

Research Interests:

- Stellar astrophysics
- Quantitative spectroscopy
- Chemical abundances of early-type stars
- Observational constraints on stellar evolution

- The Be phenomenon

Publications:

Article: Refereed

“Non-LTE Equivalent Widths for N II with Error Estimates”, A. Ahmed, & T.A.A. Sigut, 2015, MNRAS, 455, 1099A.

“The Temperature Structure of Be Star Disks in The Small Magellanic Cloud”, A. Ahmed, & T. A. A. Sigut, 2012 ApJ 744, 191 (10pp).

“The Motion of a Test Particle in The Gravitational Field of a Collapsing Shell” A. Eid and A. M. Hamza, 2009, EJTP 6, No. 21, 175.

Scientific Conferences:

1. Bright Emissaries 2014, University of Western Ontario, London, Ontario, Canada, August 11-13th, 2014.
2. CASCA 2012, University of Calgary, Calgary, Alberta, Canada, June 4th -7th, 2012.
3. CASCA 2011, University of Western Ontario, London, Ontario, Canada, May 30th - June 2nd, 2011.
4. The 1st Middle East-Africa Regional IAU Meeting, Cairo, Egypt, April 5th -10th, 2008.
5. The 2nd workshop on Ionospheric physics and application, in cooperation between the Astronomy Department, Cairo University and ICTP, January 14th - 17th 2007 at Cairo University and Bibliotheca Alexandria.
6. The 1st workshop on Ionospheric physics and application, in cooperation between the Astronomy Department, Cairo University and ICTP at Cairo University, March 29th – April 1st, 2004.

Conferences Participation:

Posters:

1. “Nitrogen Abundances in Rapidly Rotating B Stars” , Ahmed and T.A.A. Sigut, Bright Emissaries 2014, University of Western Ontario, London, Ontario, Canada, August 11-13th, 2014.
2. “Be Stars Disks at Low Metallicity”, Ahmed and T.A.A. Sigut, CASCA 2011, London, ON, Canada, May 30th – June 2nd, 2011.

Talks:

1. "The Temperature Structure of Be Star Disks in the Small Magellanic Cloud", CASCA 2012, Calgary, AB, Canada, June 4th -7th, 2012.

Academic honors received:

1. A governmental fellowship for graduate studies at Astronomy Department, Cairo University, since December 2005 – August 2009.
2. Abd Alqawy Aiad's award for excellent academic achievements in Astronomy, May 2004.
3. Three Awards of excellence from the ministry of higher education during undergraduate studies October 2000-May2004.

Public Outreach:

- Public talk: "Star Formation", Cronyn Observatory, University of Western Ontario, July 29th, 2011.
- Telescope operator: Cronyn Observatory, University of Western Ontario, June 29th 2010.

References:

- **Dr. Aaron Sigut** Department of Physics and Astronomy, UWO
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- **Dr. John D. Landstreet** Department of Physics and Astronomy, UWO
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- **Dr. Jan Cami** Department of Physics and Astronomy, UWO
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