

POSTGRADUATE STUDIES IN PHYSICS @ UJ

Study and Research Programs for MSc and PhD degrees



PRINCIPAL AREAS OF RESEARCH

- **Astrophysics**

- Asteroseismology
- Active galactic nuclei
- Radiation astrophysics
- Multi-wavelength data analysis

- **Condensed Matter Physics**

- Highly correlated matter, quantum criticality, superconductivity and magnetism
- Magnetic-electronic, structural-mechanical and electrical-transport investigations at extreme pressure-temperature conditions
- Magnetism and criticality in Cr alloys
- Electronic structure of correlated electron systems
- Surface science
- Magnetism in thin films and superlattices

- **Nuclear Physics**

- Nuclear structure, reaction theory and exotic nuclei
- Experimental studies of nuclear structure and reactions
- Chiral symmetry in nuclei

- **Theoretical Physics**

- Nuclear physics
- Astroparticle physics and cosmology

- **Atmospheric Physics**

- Solar irradiance

- **Physics Education**

For more information:

<http://www.uj.ac.za/physics>



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REINVENT YOURSELF.

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