

My new life as a lecturer in the Physics Department

by Doomnull Unwuchola

I am one of the graduate students from the African Institute of Mathematical Sciences (AIMS) in Cape Town (on the right a picture of myself with Prof Neil Turok, one of the founders of AIMS) and now in the physics department of the University of Johannesburg (UJ). My AIMS essay topic was based on high energy particle physics and also my current study on my masters in UJ. This has to do with the studying of the electroproduction of baryonic resonances via the omega meson channel. The differential cross-section of the omega data is extracted and viewed in the light of one pion exchange models. It is interesting to study the transition from low squared momentum transfer (Q^2) physics to high Q^2 regime as the Q^2 of the data lies in the region that constitutes where one can apply constituent quark model (CQM) up to perturbative quantum chromodynamics (pQCD).



The physics department of the University of Johannesburg is a wonderful place to be. The entire research personnel, lecturers and supporting staff have awesome personalities. Being a graduate student and at the same time a lecturer gives me the platform to implement the knowledge and positive ethics I have



acquired from the senior members of staff and the supporting staff. If I may suggest a theme for what I am experiencing in the physics department, I would say "intensive hard-work in service to others results in good leadership".