

# Shape Phase Transition in Nuclei within a Correlation between Two Quantum Concepts

**S. Ait Elkorchi, M. Chabab, A. El Batoul, A. Lahbass, M. Oulne**

High Energy Physics and Astrophysics Laboratory, Faculty of Sciences Semlalia, Cadi Ayyad University, P. O. B. 2390, Marrakech 40000, Morocco

In this work, we present a correlation that we have revealed between the well-known quantum concepts: the minimal length and the deformation dependent mass in the study of transitional nuclei near the critical point symmetries X(3) and Z(4).