DOUBLE SHELL STRUCTURE OF THE PERIODIC SYSTEM

one obtains for the far transactinides a new electron shell which has a maximum angular momentum l=4and is started with the element Z = 121. 4. Modern algebraic approach to elementary particle physics has brought out some parallels between

the properties of hadrons and the H-atom. It has

been shown 6 that not only the H-atom but also the

0(4,2). It seems to be of interest to use the transformation from the hydrogen spectrum to the PSEspectrum as an experimentally well accessible model for similar problems in the physics of strong interaction. In this connection it would be desirable to

KES for stimulating discussions.

obtain more experimental values on the properties of highly ionized atoms than are currently available. We thank K. HARDENBERG, H. LÜBBIG and J. MIM-

hadron spectrum can be described by the group