

Title of Article: Isotope Effect On Cuprates Component In Determining Experimental Critical Temperature

Author(s): Uno E. Uno and Moses E Emetere

Outlet: Int. Journal for scientific research,1 (1) pp.15-24(2011)

Abstract: The BCS isotope equation was re-modeled to analyze the cuprates at optimal doping. When the isotope exponent goes into the negative, the proton was discovered to be the major player at this stage which determined the experimental values of the critical temperatures of Bi₂₂₁₂, Bi₂₂₂₃, Tl₂₂₀₁, Tl₂₂₁₂, Cu₂₂₃₄, Pb₁₂₁₂, Tl₁₂₁₂, Ru₁₂₁₂, Au₁₂₁₂, Y₁₂₃, Hg₁₂₀₁, Hg₁₂₁₂ and Tl₂₂₂₃. The mechanism of the high temperature cuprates was proved to be electronic only at this stage. The abnormalities observed in the high temperature cuprates was traced to the strange bond which exist between peculiar elements. Perhaps the bonding of high temperature cuprates is yet to be discovered.