**The eventuality of Double alpha decay of Z=120 Super heavy nuclei**

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**ABSTRACT:**

Simultaneous emission of two alpha particles of same nature from a parent nuclei in the opposite direction is known as Double alpha(2α) radioactivity. Several different theoretical methods have been suggested for examining the spontaneous decay phenomenon of double alpha (2α) decay. So far, we have studied the decay properties of Alpha, Cluster, Spontaneous fission, and Super heavy elements using our realistic Model called Cubic plus Yukawa plus Exponential Model(CYEM) in two sphere approximation and also incorporating deformation effects. Our current paper focuses the study of double alpha decay of radioactive isotopes of Z=120 (super heavy element) using our realistic CYE Model with including deformation effects for parent and daughter nuclei keeping the emitted cluster as spherical.

**Key words:** double alpha, radioactivity, CYEM, super heavy elements