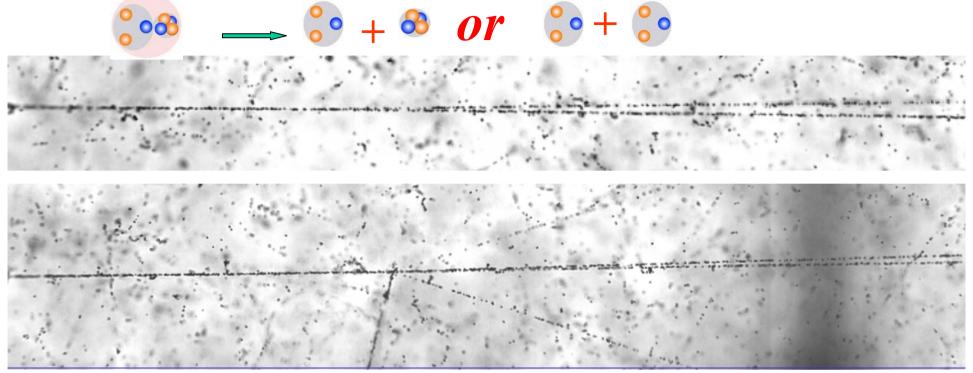
Relativistic ⁷Be fragmentation into helium nuclei



³He clustering. Substitution of α clusters in ⁸Be, ⁹Be, ⁹B, ¹⁰B, and ¹²C by the ³He nuclei gives similar cluster states in ⁶Be, ⁷Be, ⁸B, and ⁹C.

⁶Be nucleus is a ³He-³He resonance close in its properties to the α-α system in ⁸Be. By analogy with ⁹Be, in ⁷Be there are possible n-⁶Be and ³He-n-³He excitations in addition to α-³He states. It is interesting to separate a ³He-³He-³He state in ⁹C. There are other interesting states like α-³He-³He in ¹⁰C, α-α-³He in ¹¹C.