7. INVESTIGATION OF α-^3He RESONANCES AT RELATIVE ENERGY $1<E_x<20$ IN THREEPARTICLES PROCESSES $^9Be + ^{13}C \rightarrow ^{15}C + \alpha + ^3He$

V. Ostashko, M. Lattuada, M. Milin, O. Goryunov, A. Di Pietro, D. Miljanic, M. Zadro, A. Musumara, M.-G. Pellegriti, S. Romano, S. Tudisco, A. Tumino, P. Figuera

Two particles coincidences of identified ^{15}C and unidentified particle from $^{9}Be+^{13}C$ collisions are analyzed as three particles exit channel $^{9}Be(^{13}C,^{15}C\alpha)^{3}He$ and $^{9}Be(^{13}C,^{15}C\,\tau)^{4}He$. In spectrum of $\alpha-\tau$ relative energy ^{7}Be well-known states with $E_x(^{7}Be)$ = 4,7, 6,73 and 9,2 MeV are identified and other at $E_x(^{7}Be)$ ~11,6, 13, (14,1), 15,7 and 18 MeV are also possible. Situation that states of ^{7}Be with $E_x(^{7}Be)$ = 7,21 and ~ 10 MeB are not observed in those reactions are explained their not $\alpha-\tau$ cluster structure.