

EFFECT OF MOMENTUM CORRELATIONS
ON THE PROPERTIES OF FRAGMENTS
PRODUCED IN HEAVY-ION COLLISIONS

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S u m m a r y

We study the effect of momentum correlations on the properties of light and medium mass fragments by imposing the momentum cut in clustering the phase space. The rapidity distributions, $dN/p_t dp_t$ spectra, and ratio of transverse to longitudinal energy (E_{rat}) for the reactions of $^{12}\text{C}+^{12}\text{C}$ and $^{40}\text{Ca}+^{40}\text{Ca}$ are analyzed. We have found a significant influence of the momentum cut on these properties of the fragments. The results of our calculations are compared with experimental data.