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48 GeV/c ^{12}C beam induced reaction with multiple fragments emission GORAN JOHANSSON, Tel Aviv University — An inverse kinematics exclusive measurement of the ^{12}C(p, 2p)X reaction was performed at JINR, Dubna, Russia at 4 (GeV/c)/A. Multiple nuclear (e.g. ^{4}He) fragments were detected in coincidence with the two protons knocked out in the reaction. We report here the study of the fragmentation of the residual X system after the quasi elastic (QE) knockout of a single nucleon or of a nucleon in a short range correlated (SRC) pair. This analysis is complementary to the study of a single heavy fragment (B or Be) reported by Julian Khalbow to this meeting. The multiple light fragment production is related to the stability of the residual system after the knockout. It can teach us about the energy deposit in the process, and the nuclear ground state prior to the single nucleon or SRC pair removal.

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