

Abstract Submitted
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Clustering in Alpha Conjugate Nuclei Reactions KRIS HAGEL,
Cyclotron Institute, Texas A&M University — Reaction products from alpha conjugate nuclei systems of 35 MeV/u $^{40}\text{Ca} + ^{40}\text{Ca}$, $^{40}\text{Ca} + ^{12}\text{C}$, $^{40}\text{Ca} + ^{181}\text{Ta}$, $^{28}\text{Si} + ^{28}\text{Si}$, $^{28}\text{Si} + ^{12}\text{C}$ and $^{28}\text{Si} + ^{181}\text{Ta}$ are presented. Alpha particles and alpha conjugate fragments emitted in these reactions are observed with large probabilities. Alpha particles appear to be emitted from a neck like source. Reactions are compared to model calculations and interesting similarities and differences are discussed.

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