Contribution ID: **18** Type: **not specified**

A review of nuclear cluster models

The nuclear cluster models has extensively been used to understand some of the structural properties of nuclear matter. A number of theoretical models have been developed since the discovery that alpha decay could be conceptually understood as the expulsion of a correlated subset of four nucleons from the parent nucleus. This presentation will give a brief overview of the most popular nuclear cluster model descriptions in nuclear physics, and will highlight some of the strengths and weaknesses of each of the models.

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