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Investigation of nuclear cluster phenomenology with the relativistic EDF approach

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Relativistic energy density functional approaches are able to describe on a common ground quantum liquid and

cluster states in nuclei. We will first show how the experimental observables related to clusterisation are described with this approach.

The study of the localisation of the nucleonic wave-functions in nuclei will also be undertaken in order to provide a deep understanding

of the formation of alpha-like clusters over the nuclear chart.

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