



ID de Contribution: 40

Type: **Invited talk**

Clustering effects in nuclear reactions at low and medium energies

jeudi 25 novembre 2021 09:15 (45 minutes)

In this talk, I will review some recent achievements in the study of clustering in light and medium mass nuclei. In particular, I will discuss some results in the rush to the discovery of possible direct decays of the Hoyle state in ^{12}C , that has been performed both by using nuclear reactions at low and medium energies. I will also discuss some results obtained in the analysis of ^{13}C and ^{20}Ne structure with low energy nuclear reactions, and their connection with symmetries in nuclear physics and nuclear astrophysics. Finally, I will briefly show some possible effects linked to clustering in the low energy fusion of heavy ions.

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Classification de Session: Clustering phenomena and multi-particle decay

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