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Recent theoretical and experimental advances on giant resonances in unstable nuclei

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These last years, significant progresses have been made in the investigation on giant resonances physics related to unstable nuclei.
This predictive sector of nuclear physics benefits from several new theoretical approaches. For instance the role of deformation and neutron excess on giant resonances and their low-energy component are better understood. New modes of excitations have also been predicted. Advances in experimental methods have opened a new field of study such as for the compression mode in exotic nuclei. Recent astrophysical impact on the r-process and neutron stars physics will also be underlined.

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