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## **A OVERVIEW OF MEAN-FIELD AND BEYOND MEAN-FIELD THEORETICAL STUDIES ON GIANT RESONANCES**

**Gianluca Colò, Università degli Studi and INFN, Milan, Italy**

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In this contribution, we shall review several works related to the extraction of the symmetry energy parameters from isovector nuclear excitations, like the giant resonances. We will focus on the Isovector dipole, the isovector quadrupole and the charge-exchange anti-analog dipole resonance. We will conclude that these extractions lead to consistent values for the symmetry energy at saturation,  $J$ . The extracted values for the slope parameter  $L$  are not fully consistent, and call for a detailed analysis of model dependences and experimental uncertainties. We will end with a critical discussion of the mean-field models we have employed in this study.