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# Electroproduction of hypernuclei

*Monday, 26 June 2023 15:45 (20 minutes)*

Electroproduction of hypernuclei is an object of interest since information on properties of the bound system of nucleons and a hyperon gives important insight onto the structure of nuclear matter and provides a stringent test of the hyperon-nucleon interactions. We will present a technique (distorted-wave impulse approximation) of computing the cross sections in electroproduction of Lambda-hypernuclei discussing various components of the amplitude, such as the radial integrals, the elementary amplitude, and the nucleus-hypernucleus structure. Particularly, we will show effects in the cross sections from the kaon distortion, proton Fermi motion and description of the nucleus structure (one-body density matrix elements).

## Collaboration

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