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## Advances in Exploration of the Nucleon Resonance Spectrum and Structure

*Friday 3 December 2021 10:50 (30 minutes)*

Studies of the nucleon resonance spectrum and structure offer the unique information on strong interaction dynamics which underlies the generation of excited nucleon states with different structural features. The advances in exploration of the  $N^*$  spectrum which result in discovery of several long time awaited new baryon states (previous “missing resonances”) will be presented. The prospects for extension of the  $N^*$ -spectrum studies from combined analyses of exclusive meson photo-/electroproduction data will be highlighted. The progress in the studies of nucleon resonance electroexcitation amplitudes from exclusive meson electroproduction data with CLAS will be presented. The impact of these results on understanding of emergence of hadron mass achieved within continuum QCD approach will be discussed. Future extension of these efforts in experiments with the CLAS12 detector will be outlined.

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