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Basis Lightfront Approach to Hadron Structure

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Field theories quantized on the lightfront have long been considered as a viable framework for hadron structure. In this talk I will give an overview of Basis Lightfront Quantization (BLFQ), a nonperturbative approach to hadron structure and mass spectrum based on the Hamiltonian formalism of the lightfront dynamics and the modern developments in *ab initio* nuclear structure calculations. I will report the current development status of BLFQ through a series of applications to different systems, including the positronium in QED, the heavy quarkonium, the light meson and baryon systems in QCD. I will present the observables such as the form factors and (generalized) parton distribution functions for these systems and compare them with experimental data wherever available. Finally, I will introduce our roadmap for future developments.

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