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From pion to dipion light-cone distribution amplitudes

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As the lightest and simplest hadron composed by valence quarks, pion meson and the involved channels are usually treated as the benchmarks of measurements, which requires the theoretical calculations based on the knowledge of its inner structure to achieve at a high accuracy. How precise do we know the pion meson light-cone distribution amplitudes (LCDAs)? In this talk I will report the recent study of the first few coefficients and the chiral mass by the data-driven dispersion relation with the electromagnetic form factor. Followed I will furtherly go to the LCDAs of dipion system where the double expansion coefficients B_{nl}^I would be discussed. I would like to conclude the talk with the phenomena in heavy flavor decays.

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