XLVII International Symposium on Multiparticle Dynamics (ISMD2017)
September 11-15, 2017, Tlaxcala City, Mexico

Contribution ID : **59** Type : **not specified**

Calculation of baryon properties from continuum functional methods

Wednesday, 13 September 2017 10:35 (0:25)

Content

The calculation of hadronic observables using a combination of Dyson-Schwinger and Bethe-Salpeter equations has developed dramatically in recent years. The method aims at the calculation of hadronic properties from the underlying QCD degrees of freedom, without abandoning the realm of continuum quantum field theories. We report on the most recent calculations of the spectrum and electromagnetic properties of baryons in this framework, highlighting the physical mechanisms that are currently included/excluded in those calculations. Moreover, we outline the developments that will, foreseeably, take place in the near future, and how they will make the corresponding results reliable enough to be use as input for calculations in which hadronic information is needed.

Session

Proton structure, small and large x physics

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Session Classification : Proton structure, small-and large-x physics (III)