



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

Contribution ID : 89

Type : **not specified**

The nucleon and its parity partner

Monday, 11 September 2017 17:35 (0:05)

Content

Within the Dyson-Schwinger equations (DSEs) approach, we study the nucleon to its parity partner, $N^*(1535)$, transition form factor. This framework demands to solve the three-particle bound state equation equation, Faddeev Equation. A sophisticated diquark picture is employed in order to expedite the computation of this transition. Several intermediate diquark transitions are required to obtain the full result. The nucleon transition form factors for large momentum transfer will be measured at the 12 GeV upgrade of the Jefferson Laboratory. Therefore, it is timely to have the predictions ready for the relevant form factors.

Session

Poster sessions

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Session Classification : Flash Talks