

Abstract Submitted  
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**Modern Deuteron Form Factor Parameterization.**<sup>1</sup> ASIA PARKER,  
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MOKHTAR, Duquesne University — **Abstract:**

The determination of the deuteron form factors is essential for both the understanding of the simplest bound nuclear system and for the future EIC where elastic deuteron scattering one can determine the polarization of a stored deuteron beam. New deuteron elastic data from the Jefferson Lab LEDEX experiment, as well as previous results, will be used to perform new parameterization of the deuteron form factors. Our fit will ensure proper analytic properties so that it can be used beyond the range of the data without having singularities and nonphysical behavior that many previous parameterizations have.

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