True Muonium on the Light Front \cite{1} HENRY LAMM IV, RICHARD LEBED, Arizona State Univ — The true muonium ($\mu^+\mu^-$) bound state presents an interesting test of light-cone quantization techniques. In addition to the standard problems of solving these non-perturbative calculations, true muonium requires correct treatment of $e^+e^-$ Fock state contributions. Having previously produced a crude model of true muonium using the method of iterated resolvents \cite{1}, current work has focused on the inclusion of the box diagrams that should improve the cut-off dependent issues of the model. Further, a parallel computer code allowing for decreased numerical uncertainties is in development. This talk will focus on the current state of these efforts to develop a model of true muonium testable at near-term experiments.


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