Quasielastic scattering with the Relativistic Green Function approach

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♥ : we are interested in a consistent description of FSI in exclusive and inclusive reactions
♠ : relativistic models for electron and neutrino-nucleus scattering
♦ : Relativistic Green’s Function
♣ : RGF: matrix elements of the same type as usual RDWIA models, but eigenfunctions of both $\mathcal{V}$ and $\mathcal{V}^\dagger$ are involved $\Rightarrow$ the imaginary part of the optical potential is very important $\Rightarrow$ RGF very different from models like rROP
♥ : good results for the $(e, e')$ cross section
♠ : results for the CCQE and NCE cross sections from MiniBooNE $\Rightarrow$ reasonable agreement with data
♦ : possible contribution of reaction channels that are recovered by the imaginary part of the optical potential even if they are not included in the model