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Prospects of inclusive reactions using quantum computers

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The fact that lattice QCD is defined in a finite-Euclidean spacetime, prohibits direct access of inclusive scattering observables from lattice QCD. In principle, one can envision determining such quantities from real-time computations, such as those that may be eventually performed using quantum computers. Looking forward into the future, in this talk I outline a possible pathway towards determining inclusive scattering observable from real time matrix elements. I enumerate some new challenges encountered in this framework, as well as possible solutions.

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