## 1. Introduction

- a. Why do we care (DUNE, T2K, etc)
  - i. Generic cross section modelling problems for v-oscillation experiments and where LQCD + EFT can fit in
  - ii. Relative importance of FA, delta, other resonances etc
- b. Dipole vs z-expansion and challenges of extracting F A, also F 2 sensitivity
- c. What are people doing (experimentally) to constrain missing pieces
- In this article, we focus on LQCD as a method, beginning with FA as that is on the cusp of being reliably determined from LQCD (and after, resonance and NN etc)
- 2. Lattice QCD results for F\_A
  - a. High level intro to LQCD
  - b. Survey of LQCD results of F A, large MA
- 3. Phenomenological impact
  - a. Predicting nu-A cross sections
  - b. State of generators? (maybe discuss this in this review)
  - c. Implications for large MA: discussion (and/or study) of impact for oscillation analysis. Show model differences for some example datasets
  - d. Take CalLat F\_A\_preliminary
- 4. Future improvements from LQCD + EFT
  - a. What is needed beyond F A from LQCD?
    - i. Delta resonance
    - ii. Other resonances
    - iii. Two-nucleon response
    - iv. Pion production