

## Nuclear Effects in (Anti)Neutrino Charge-Current Quasielastic Scattering at MINER $\nu$ A Kinematics

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We compare the characteristics of the charged-current quasielastic (anti)neutrino scattering obtained in two different nuclear models, the phenomenological SuperScaling Approximation [1] and the model using a realistic spectral function  $S(p, \mathcal{E})$  that gives a scaling function in accordance with the  $(e, e')$  scattering data [2], with the recent data published by the MINER $\nu$ A Collaboration [3]. The spectral function accounts for the nucleon-nucleon correlations by using natural orbitals from the Jastrow correlation method and has a realistic energy dependence. Both models provide a good description of the data without the need of an *ad hoc* increase of the value of the mass parameter in the axial-vector dipole form factor.

### References

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