

# What is Wrong with Our Current Nuclear Forces?

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In this talk, I will analyze *ab initio* predictions for light and intermediate-mass nuclei as well as nuclear matter. Problems and open issues will be outlined and an attempt will be made to relate them to specific deficiencies of the chiral two- and many-nucleon forces currently in use [1–4].

## References

- [1] R. Machleidt and D.R. Entem, Phys. Rep. **503**, 1 (2011).
- [2] E. Epelbaum, H.-W. Hammer, and U.-G. Meißner, Rev. Mod. Phys. **81**, 1773 (2009).
- [3] D.R. Entem, R. Machleidt, and Y. Nosyk, Phys. Rev. C **96**, 024004 (2017).
- [4] P. Reinert, H. Krebs, and E. Epelbaum, arXiv:1711.08821.