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Calculations with spectroscopic accuracy: Energies and transition parameters for lines of fusion interest in Mo XXXIX

Zhan-Bin Chen, Kai Wang

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**Highlights**

- Excitation energies, transition wavelengths, and transition probabilities for lines of fusion interest in Mo XXXIX are reported.
- Two sets of atomic parameters, independently calculated, excellently agreed with each other, suggesting that there is a high degree of convergence achieved in this study.
- The most accurate and complete, as of today, atomic data for Mo XXXIX are provided.
- The present data particularly important for fusion research.

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