

TL01: VIBRATIONAL SPECTROSCOPY OF H_2He^+ and D_2He^+

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- H_2He^+ is fundamental six-particle system
- Investigate vibrational bands by experiment and *ab initio* theory
- **Experiment:** use low-temperature ion trap
- **Theory:** Variational calculations on accurate PES
- Identify most important bands, in particular H-H stretch
- Aim for high resolution in future experiments

