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## Hyperfine structure of excited states of hydrogen mesomolecules

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The hyperfine structure of excited states of muonic molecules  $td\mu$ ,  $tp\mu$  and  $dp\mu$  is calculated on the basis of stochastic variational method. The basis wave functions are taken in the Gaussian form. All matrix elements of the Hamiltonian are calculated analytically. For numerical calculation, a computer code is written in the MATLAB system. Numerical values of hyperfine splitting of excited states in hydrogen mesomolecules  $td\mu$ ,  $tp\mu$  and  $dp\mu$  are obtained.

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