

Plan of a possible paper

1. Formulation of the problem within phase space distribution approach
 - 1.1 Approximations that are used, for example delta function for Wigner function
 - 1.2 Equations for a constraint minimum
 2. Finding a constraint minimum for general harmonic oscillators
 - 2.1 Transformation of variables
 - 2.2 Finding the minimum using a method of Lagrange multipliers
 - 2.3 Large and small energy behavior
 3. Taking into account anharmonicity
 - 3.1 Perturbation theory for polynomial terms of the third degree
 - 3.2 Exact solution for a specific case of a completely separable problem with the same partial potentials of the form of cubic polynomials
 4. Some possible example of application of the method
- Appendix. Wigner function for an anharmonic potential (only third-degree terms)