

Recent advances in the numerical solution of Hamiltonian PDEs

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Abstract

The efficient numerical solution of Hamiltonian PDEs has been the subject of many investigations in the last years (see, e.g., [1, 11]), especially concerning the use of *multi-symplectic* methods [9, 10]. In this talk, we shall be concerned with the use of energy-conserving methods in the HBVMs class [2, 3, 4], which are based on the concept of discrete line integral [6, 7, 8], when a spectral space discretization (see, e.g., [5]), is considered. The used approach will cope with different kind of boundary conditions.

References

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