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**Abstract.** The abstract should provide a brief summary of the main findings of the paper.

**PACS:** PACS codes to be provided

**Key words:** moving mesh method, conservative interpolation, iterative method,  $l^2$  projection.

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## 1 Introduction

In the past two decades, there has been important progress in developing adaptive mesh methods for PDEs. Mesh adaptivity is usually of two types in form: local mesh refinement and moving mesh method. ....

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- [2] H. Kanamori, Science 279 (5359) (1998) 2063.

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**References**

- [1] M. J. Berger and P. Collela, J. Comput. Phys. 82 (1989) 62.
- [2] C. de Boor, Good approximation by splines with variable knots II, in: Springer Lecture Notes Series 363 (Springer-Verlag, Berlin, 1973).
- [3] Z. J. Tan, T. Tang, and Z. R. Zhang, J. Comput. Appl. Math., accepted for publication.
- [4] E. F. Toro, Riemann Solvers and Numerical Methods for Fluid Dynamics (Springer-Verlag, Berlin Heidelberg, 1999).