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Journal of the American Mathematical Society 순수수학, 응용수학 전반에 걸친 연구 수록 E-ISSN : 1088-6834 Impact Factor(2020) : 5.318



Mathematics of Computation 계산수학 관련 저널 (수치해석, 이산수학, 정수론, 대수학, 순열조합론 등) E-ISSN: 1088-6842 Impact Factor(2020): 2.417



Proceedings of the American Mathematical Society 순수수학, 응용수학의 모든 분야의 짧은 연구 논문(15페이지 이하) 수록 E-ISSN: 1088-6826 Impact Factor(2020): 1.016



Transactions of the American Mathematical Society 순수수학, 응용수학 전반의 정확하고 참신한 내용을 수록. 수학자들의 대폭적인 지지를 받은 논문만 수록 가능 (미입증 및 미결론 논문은 수록하지 않음) E-ISSN : 1088-6850 Impact Factor(2020) : 1.412



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An algorithmic approach to Chevalley's Theorem on images of rational morphisms between affine varieties MATHEMATICS COMPUTATION (view abstract)



An algorithmic approach to Chevalley's Theorem on images of rational morphisms between affine varieties The goal of this paper is to introduce a new constructive geometric proof of the affine version of Chevalleyâlls Theorem. This proof is algorithmic and a verbatim implementation resulted in an efficient code for computing the constructible image of rational maps between affine varieties. Our approach extends the known descriptions of uniform matrix product states to uMPS(2, 2, 5).

Stable broken H(curl) polynomial extensions and p-robust a posteriori error estimates by broken patchwise equilibration for the curl--curl problem

(view abstract)

Stable broken H(curl) polynomial extensions and p-robust a posteriori error estimates by broken patchwise equilibration for the curl--curl problem

We study extensions of piecewise polynomial data prescribed in a patch of tetrahedra sharing an edge. We show stability in the sense that the minimizers over piecewise polynomial spaces with prescribed tangential component jumps across faces and prescribed piecewise curl in elements are subordinate in the broken energy norm to the minimizers over the broken H(curl) space with the same prescriptions. Our proofs are constructive and yield constants independent of the polynomial degree. We then detail the application of this result to the a posteriori error analysis of the curlâllcurl problem discretized with Nédélec finite elements of arbitrary order. The resulting estimators are reliable, locally efficient, polynomial-degree-robust, and inexpensive. They are constructed by a broken patchwise equilibration which, in particular, does not produce a globally $H(\mathbf{curl})$ -conforming flux. The equilibration is only related to edge patches and can be realized without solutions of patch problems by a sweep through tetrahedra around every mesh edge. The error estimates become guaranteed when the regularity pick-up constant is explicitly known. Numerical experimentsillustrate the theoretical findings.

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Articles accepted prior to AMS Early View implementation:

Bassam Fayad Lyapunov unstable elliptic equilibria

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Y. Bruned, F. Gabriel, M. Hairer and L. Zambotti. J. Amer. Math. Soc. **35** (2022), 1-80 Abstract, references and article information Full-text PDF MathSciNet review: 4322389

The conformal group of a compact simply connected Lorentzian manifold

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Remote Access - Mobile 기기 이용 안내

대부분의 스마트폰 및 태블릿에서 이용 가능(아래 기본 사양 필수)

- Cookies 허용
- Javascript 활성화
- localStorage 가능 : 데이터를 사용자 로컬에 보존하는 방식, 브라우저가 닫히거나 다시 열려도 유지
- 개인정보 보호 브라우징 (private browsing) 모드 끄기
- 인터넷 연결
- 브라우저 별로 설정됨 (Chrome을 이용해 Pairing하면 Chrome을 통해서면 Remote Access 가능)





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