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Fredrik Johansson. Computing the Lambert W function in arbitrary-precision complex interval arithmetic. Numerical Algorithms, Springer Verlag, 2020, 83 (1), pp.221-242.
10.1007/s11075-019-00678-x .

Computing the Lambert W function in arbitrary-precision ...

The hypercohomology of this complex coincides with cohomology of the Gersten-Witt complex, which in some cases can be related to topological or semialgebraic Borel-Moore homology.
[70] arXiv:2007.04633 [pdf , ps , other]

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Background. Today, the interval arithmetic technology which was made by Sunaga & R. Moore is used in many areas including validated numerics. But unfortunately, interval arithmetic is useless when numerical computation is repeated many times. Therefore, many experts have studied how to overcome this weakness.

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We focus on Anosov homomorphisms with "small" limit sets, as measured by the Riemannian Hausdorff codimension in the flag variety. Under such a codimension hypothesis, we show that all first-order deformations of complex structure on the associated compact complex manifolds are realized by deformations of the Anosov homomorphism.

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In mathematics, a (real) interval is a set of real numbers that contains all real numbers lying between any two numbers of the set. For example, the set of numbers x satisfying $0 \leq x \leq 1$ is an interval which contains 0, 1, and all numbers in between. Other examples of intervals are the set of numbers such that $0 < x < 1$, the set of all real numbers, the set of nonnegative real numbers, the ...

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Solving a system of nonlinear inequalities is an important problem for which conventional numerical analysis

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has no satisfactory method. With a box-consistency algorithm one can compute a cover for the solution set to arbitrarily close approximation. Because of difficulties in the use of propagation for complex arithmetic expressions, box consistency is computed with interval arithmetic.

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Interval (mathematics) - Wikipedia

Computing the Lambert W function in arbitrary-precision complex interval arithmetic, arXiv preprint arXiv:1705.03266, (2017). F. Johansson, mpmath: a Python library for arbitrary-precision floating-point arithmetic, (2017). Version 1.0. F. Johansson,

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Background. Today, the interval arithmetic technology which was made by Sunaga and R. Moore is used in many areas including validated numerics. But unfortunately, interval arithmetic is useless when numerical computation is repeated many times. Therefore, many experts have studied how to overcome this weakness.