

Stanford Department of Mathematics Colloquium

SOME THINGS THAT CAN HAPPEN WHEN THE MINIMUM PRINCIPLE FAILS

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Abstract

Most analysts feel about scalar valued, linear heat flows the way they do about their grandparents: they are stable, reliable, but dull. To a large extent, the origin of their stability is the *minimum principle*, which says that the flow preserves non-negativity. In this lecture, I will describe some examples of what can happen when one introduces boundary conditions which destroy the minimum principle. If nothing else, this line of research provides a nice example of the way probabilistic intuition can guide one to analytic conclusions.

Thursday, October 2,
4:15 p.m.
Bldg. 380, Room 380-W

<http://math.stanford.edu/coll/0809/>