

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, January 29
2:00 – 3:00 PM
Maria Sanford, Room 101

A HARNACK INEQUALITY FOR THE PARABOLIC ALLEN-CAHN EQUATION

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Abstract: We prove a Harnack inequality for the solution of the parabolic Allen-Cahn equation on a closed n -dimensional manifold. As a corollary we find a gradient bound for the standing wave solution, which improves on a result of Modica from the 1980s.

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