

OBSTRUCTIONS TO YANG – MILLS BUBBLING IN DIMENSION FOUR

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Time: Nov. 6th. Fri, 15:30 -16:30;

Venue: Room 102, SCMS

Abstract:

We prove a general obstruction to gluing an anti-self-dual connection to a self-dual bubble on a 4-manifold. On S^4 with $SU(2)$, this rules out bubble-tree limits containing a single unit-charge instanton alongside anti-instantons, yielding improved energy gap and discreteness results for the Yang – Mills functional.