RECENT PROGRESS ON THE HOT SPOTS CONJECTURE

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In its current form, the hot spots conjecture is the assertion that maximum of a second eigenfunction of the Neumann Laplacian on a bounded, contractible, Lipschitz domain is achieved only on the boundary of the domain. For the past fifty years, progress on the conjecture has been intermittent and limited. I will discuss some recent results and the methods. Some of the work discussed is joint work with Sugata Mondal.