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Lower bounds for volumes of nodal sets: an improvement of a result of Sogge-Zelditch

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(Submitted on 1 Jul 2011 (v1), last revised 13 Jul 2011 (this version, v2))

We use the Dong-Sogge-Zelditch formula to obtain a lower bound for the volume of the nodal sets of eigenfunctions. Our result improves the recent results of Sogge-Zelditch and in dimensions n \leq 5 gives a new proof for the lower bounds of Colding-Minicozzi.

Comments:	This is a revised version which improves the result of the earlier version
Subjects:	**Analysis of PDEs (math.AP)**; Differential Geometry (math.DG); Spectral Theory (math.SP)
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