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Morse-Bott functions on smooth manifolds with semi-free circle actions

Abstract: Let W^{2n} be a compact closed manifold of dimension at least 6 with a semi-free circle action which has finitely many fixed points. We study the S^1-invariant Morse-Bott functions on W^{2n}. We shall establish exact values of minimal numbers of singular circles of certain indices of S^1-invariant Morse-Bott functions on W^{2n}.