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A lower bound of the first eigenvalue of certain self-adjoint elliptic operators on manifolds containing long necks

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Abstract: In this note, under certain regularity and transversality conditions we obtain a sharp lower bound of the first eigenvalue for certain self-adjoint elliptic operators on manifolds with long necks. This result is used in the gluing construction of 3-dimensional Seiberg-Witten moduli spaces along T^2. See [C1], [C2].