

On the Space of Symmetric Operators with Multiple Ground States

[Andrei Agrachev](#)

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We study homological structure of the filtrations of the spaces of self-adjoint operators by the multiplicity of the ground state. We consider only operators acting in a finite dimensional complex or real Hilbert space but infinite dimensional generalizations are easily guessed.

Subjects: **Algebraic Topology (math.AT)**; Mathematical Physics (math-ph)

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