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The condition number for eigenvalue–eigenvector pair computations is a well–studied quantity measuring how much the solution changes when the input is slightly perturbed. The eigenvalues of symmetric matrices are optimally conditioned, but, which is a perfectly conditioned matrix w.r.t. eigenvector computations? In this talk we answer this nontrivial question with exact first order asymptotic.

The author is partially supported by Grant PID2020-113887GB-I00 funded by MCIN/ AEI /10.13039/501100011033

*Joint work with Laurent Bétermin (Université Claude Bernard Lyon 1), Peter Grabner (Technische Universität Graz) and Stefan Steinerberger (University of Washington).*