List of citations to papers of M. Horváth

The latest papers can be downloaded from www.math.bme.hu/ horvath/publm.html . The data given below are mainly taken from the Web of Science and from scholar.google.com .

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"Recently it was shown in [4] that the inequality continues to hold in the Dirichlet case for all single-well potentials with transition point ... It was also shown that the inequality does not always hold ...for single-barrier potentials..." "The following corollaries are the diffusion analogs of the result cited above in [4]." "We will obtain a diffusion analog of the above cited result from [4]..."

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"It is known that if V is a single-wellpotential...then the spectral gap satisfies...[1],[3] and [4]"

4. S.Y. Kung and T. Kaohsiung, Density functions with extremal antiperiodic eigenvalues and related topics, e-Thesis, National Sun Yat-sen University 2004. (see etd.lib.nsysu.edu.tw).
"... it was proved that the constant potential gives the minimum Dirichlet eigenvalue gaps when the potential is ... single-well [7]"

5. H.K. Huang and T. Kaohsiung, Optimal estimates of the eigenvalue gap and eigenvalue ratio with variational analysis, Master Thesis, National Sun Yat-sen University 2004. (see etd.lib.nsysu.edu.tw).
"Recently a series of works by ... and Horvath [6] show that the first eigenvalue gap ... and the first eigenvalue ratio of the string ... are dual to each other"

6. M. Kiss, Eigenvalue ratios of vibrating strings, Acta Math. Hung. 2005. 110 (2006), no. 3, 253–259.
"Horvath [6] extended Huang's results to (not necessarily symmetric) single-barrier functions with transition point ..."

7. Y.H.Cheng, Inverse Problems for Various Sturm-Liouville Operators PhD Thesis, National Sun Yat-sen University, 2005.

"Huang's work was generalized...by Horvath. Horvath's method also makes use of variational analysis. Horvath....also studied the optimal...eigenvalue gap..."

8. M. Ashbaugh, The Fundamental Gap, in: Low eigenvalues of Laplace and Schrodinger operators, ARCC Workshop, Palo Alto, California, May 22-26, 2006.

"Further work with single-well potentials in one dimension includes that of Horvath [24], who was able to eliminate the symmetry hypothesis of Ashbaugh and Benguria"

9. M-J. Huang and T-M. Tsai, The eigenvalue gap for one-dimensional Schrödinger operators with symmetric potentials, Proc. Royal Soc. Edinburgh A 139(2009), 359-366.

"(d) single-well potentials with transition point $t = a/2$ ([4])", "Horvath [4] also gave counterexamples which show that..."

10. M-J. Huang, The eigenvalue gap for vibrating strings with symmetric densities, Acta Math. Hungar. 117(4)(2007), 341-348.
"For single-barrier (not necessarily symmetric) density with transition point $x = a/2$, we can apply the ratio result of Horváth [5] to obtain:....."
"Proof: Under the hypotheses on ρ, Horváth [5] proved that...."

11. A. Henrot, Extremum Problems for Eigenvalues of Elliptic Operators, Birkhauser 2006.
"Our first result is due to M. Horvath in [112]. He was inspired by a previous paper of M. Ashbaugh and R. Benguria [6] where they assumed a supplementary symmetry that M. Horvath succeeded to remove."
"Theorem 8.4.2 (Horvath) The constant potential minimize the gap..."
"Proof of Theorem 8.4.2 : For any M, let us introduce the class..."
"For an extension of Theorem 8.4.2 to double-well potentials...we refer to [1]."
"...the assumption that the transition point is the middle seems important since... M. Horvath was able to exhibit a potential V with a smaller gap..."
"...we refer for the proof to [112]."

H–K. Huang, Optimal estimates for the eigenvalue gap and eigenvalue ratio with variational analysis, 2004. "Recently a series of work by ... and Horvath [6] show that the first eigenvalue gap ... and the first eigenvalue ratio ... are dual problems" "Theorem 1.2 ([6])" "[Horvath 2002] (detailed citation of the results, repetition of complete proofs)"

[41] M. Horváth, Inverse spectral problems and closed exponential systems, Annals of Math. 162(2005), 885-918.

1. N. Makarov and A. Poltoratski, Meromorphic Inner Functions, Toeplitz Kernels and the Uncertainty Principle, a chapter in the book: Perspectives in Analysis, Essays in Honor of Lennart Carlesons 75th Birthday , Math. Phys. Studies vol. 27. Springer 2005. "To obtain necessary conditions one has to use more specific techniques of the Schrödinger operator theory, see [7], [22]."

2. MA Na-rui, FU Sliou-zhong and WEI Guang-sheng, A Class of Inverse Sturm-Liouville Eigenvalue Problems, ACTA SCIENTIARUM NATURALIUM UNIVERSITATIS NEIMONGOL 2006 Vol.37 No.5 P.481-483.

3. Chuan-Fu Yang and Zhen-You Huang, Inverse spectral problems for 2m-dimensional canonical Dirac operators, Inverse Problems 23(2007), 2565-2574.
"Recently, the inverse spectral theory has started to develop intensively, we mention only the papers [9, 10, 11, 15, 24]."

4. Spectral Theory and Mathematical Physics: A Festschrift in Honor of Barry Simon's 60th Birthday, Fritz Gesztesy et al.(ed), Amer. Math. Soc. 2007.
"Optimal and nearly optimal conditions for a set of eigenvalues to determine the potential in terms of closedness properties of the exponential system corresponding to the known eigenvalues (implying Theorem 5.25 and a generalization thereof) were also derived by Horvath [125]."

5. C-T. Shieh and V. Yurko, Inverse nodal and inverse spectral problems for discontinuous boundary value problems, J. Math. Anal. Appl. 347 (2008) 266272.
"The following theorem has been proven by M. Horvath [11] for the Sturm-Liouville equation without interior discontinuity. We show it also holds for (1)-(3)."

6. C-F. Yang and X-P. Yang, An interior inverse problem for the Sturm–Liouville operator with discontinuous conditions, Applied Mathematics Letters 22(2009), 1315–1319.
"Later, inverse problems for a regular and singular Sturm–Liouville operator appeared in various versions [4–29,31]."

7. V. Chelkak and E. Korotyaev, Weyl–Titchmarsh functions of vector–valued Sturm–Liouville operators on the unit interval, Oberwolfach preprints, OWP 2008-13,
http://arxiv.org/PS_cache/arxiv/pdf/0808/0808.2547v2.pdf
"Note that there are two classical assumptions about the potential that

make the knowledge of the spectrum sufficient: symmetry ..... or the [partial] knowledge of q(x) (the Hochstadt-Lieberman theorem [HL78], see also [GS00], [Ho05], [MP05]).”

[42] M. Horváth, Inverse scattering with fixed energy and an inverse eigenvalue problem on the half-line, Trans. Amer. Math. Soc. 358 (11)(2006), 5161-5177.

1. A. Ramm, Some results on inverse scattering, arXiv:0710.3686v1 [math-ph] 19 Oct 2007.
”...This conjecture was proved in [4].”

2. Spectral Theory and Mathematical Physics: A Festschrift in Honor of Barry Simon’s 60th Birthday, Fritz Gesztesy et al.(ed), Amer. Math. Soc. 2007.
”For an interesting half-line problem related to this circle of ideas we also refer to Horvath [126].”

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1. A. Henrot, Extremum Problems for Eigenvalues of Elliptic Operators, Birkhauser 2006.
”The previous inequality has been recently improved for single-well potentials by M. Horvath and M. Kiss in [113]. Namely, they prove that one can replace $\lceil n/m \rceil$ by n/m in the right hand side. For similar results with Neumann boundary conditions, we refer to [115].”

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