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Review text:

Neat and nice sample of a real-world application of spectral theory. The Šeba's dry statements (cf. [27]) which characterize the derivative Dirac's delta-function interaction as an extremely boring (viz., opaque) barrier in one dimension inspired the authors who reanalyzed the problem. Their paper reviews the more recent relevant literature, offers a few new theorems and explains to the reader why the Šeba's scepticism does not apply in the so called resonant cases where the transmission does not vanish (the persuasive numerical illustration given in the (shortest) last section may be read first).