1 Reply to the reviewer A

Dear reviewer, thank you very much for your review and very detailed and helpful comments that have helped us to greatly improve our work.

In response to your comment, we have added the following line on page 3:

"If the eigenvalues are half-integer at points z_1 and z_2, then one can use the variable replacement $z = (x^n z_2 - z_1)/(x^n - 1)$, where n - the least common denominator of eigenvalues at these points and x is the new variable. If there are more than two "non-integer" points, then the replacement may not exist and each such case should be considered individually."