## ACKNOWLEDGMENT OF PRIORITY

## ASYMPTOTIC THEORY OF A TEST FOR THE CONSTANCY OF REGRESSION COEFFICIENTS AGAINST THE RANDOM WALK ALTERNATIVE

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Expression (4.10) in Nabeya and Tanaka (1988) was earlier obtained in Sen and Srivastava (1973). Some test statistics suggested in Nabeya and Tanaka (1988) have the same form as was discussed in Gardner (1969), MacNeill (1974, 1978) and Sen and Srivastava (1973, 1975a, 1975b), although testing problems are different. The limiting distributions for those statistics are also discussed in these papers. Recently Jandhyala and MacNeill (1992) established a relationship between the two testing problems. Stephens (1979) also suggested goodness-of-fit test statistics that take the same form as some of our statistics.

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## REFERENCES

- GARDNER, L. A. (1969). On detecting changes in the mean of normal variates. Ann. Math. Statist. 40 116-126.
- Jandhyala, V. K. and Macneill, I. B. (1992). On testing for the constancy of regression coefficients under random walk and change-point alternatives. *Econometric Theory* 8 501–517.
- MACNEILL, I. B. (1974). Tests for change of parameter at unknown times and distributions of some related functionals on Brownian motion. *Ann. Statist.* 2 950–962.
- MACNEILL, I. B. (1978). Properties of sequences of partial sums of polynomial regression residuals with applications to tests for change of regression at unknown times. *Ann. Statist.* **6** 422–433.
- SEN, A. K. and Srivastava, M. S. (1973). On multivariate tests for detecting change in mean. Sankhyā Ser. A 35 173-186.
- SEN, A. K. and SRIVASTAVA, M. S. (1975a). On tests for detecting change in mean. Ann. Statist. 3 98-108.
- SEN, A. K. and Srivastava, M. S. (1975b). On tests for detecting change in mean when variance is unknown. *Ann. Inst. Statist. Math.* 27 479-486.
- STEPHENS, M. A. (1979). Tests of fit for the logistic distribution based on the empirical distribution function. *Biometrika* **66** 591–595.

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