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Running mean techniques of extracting observed frequencies in Kepler red giant stars

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Abstract content (Max 300 words)
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We have developed a running mean techniques of extracting observed frequencies (individual frequencies) for red giant stars showing solar-like oscillations using data from Kepler space mission. The frequencies are extracted from the periodograms (power spectrum). We use the techniques to study the evolutionary stages (status) of red giant stars by constructing echelle diagrams and measuring the period spacing. Based on the value of the calculated period spacing, we place the red giant stars into red giant branch, red giant clump and secondary red clump. On applying the techniques to stars with well known evolutionary status, we are able to arrive at the same conclusion as other techniques.

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