x[[1]](#footnote-2)

When , the angle of gyration . Therefore, using the horizontal asymptote of the regression line of against may be more accurate than taking the half-range of the last 45 oscillations.

Arbitrarily taking the last 45 oscillations causes period to be always greater than theoretical.

Minimum and maximum gradient lines

Difference in time between neighbouring maxima (period of one oscillation)

/ s

**Regression line**

/

Time since start of recording, / s

**Theoretical line ()**

**Minimum gradient line**

**Maximum gradient line**

**Regression line**

/

Period /

Square root of length of filars, /

**Plot of against for , trial 2.**

1. test [↑](#footnote-ref-2)