

```

eff: 1.337486513e-16 eff average: 1.337486513e-19 standard deviation 2.196273641e-19
eff relative: 0.9688449792 error 2.224024836 number of events: 2000 relative Error: 52674.94142 binomial Error: 1.15649752e-11
eff: 2.760991783e-16 eff average: 1.380495892e-19 standard deviation 2.214418188e-19
eff relative: 1 error 2.268503842 number of events: 2000 relative Error: 42555.1813 binomial Error: 8.308116188e-12
eff: 2.515409934e-16 eff average: 1.257704967e-19 standard deviation 2.151378987e-19

```

```

eff: 2.515409934e-16 angle: -0.0450013272 dev: 0 run: 338
2 angles[n]: -0.0450013272 angles[n-1]: 0 deviations[n]: 0 deviations[n-1]: 0
repeats: 2 averageEff: 2.717982405e-19 averageEff/repeats: 1.358991203e-19
sum: 9.252234662e-35 standard deviation: 2.151378987e-19

```

Input interpretation

$$\sqrt{\left(\frac{1}{2} \left((1.358991203 \times 10^{-19} - 1.337486513 \times 10^{-19})^2 + (1.358991203 \times 10^{-19} - 1.380495892 \times 10^{-19})^2 \right)\right)}$$

Result

$$2.1504690... \times 10^{-21}$$

$$S^2 = \frac{\sum (x_i - \bar{x})^2}{n - 1}$$

S^2 = sample variance

x_i = the value of the one observation

$\bar{x}$ = the mean value of all observations

n = the number of observations