2DL HW 2


2DL HW 2

|  | 8 |  |  |  |
| :---: | :---: | :--- | :--- | :--- |
|  | 7 |  |  |  |
|  | Mean |  |  |  |
|  | 10.7 |  |  |  |
|  | Stdev |  |  |  |
|  | 3.404331606 |  |  |  |
|  | Sqrt(mean) |  |  |  |
|  | 3.271085447 |  |  |  |
|  |  |  |  |  | deviation to 3 in both cases, there is no difference in our results.


|  |  | results. |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| Taylor 4.12 | Data |  |  |  |
|  | 52.5 |  |  |  |
|  | 52.3 |  |  |  |
|  | 52.6 |  |  |  |
|  | 52.5 |  |  |  |
|  | 52.7 |  |  |  |
|  | 52.4 |  |  |  |
|  | Stdev |  |  |  |
|  | 0.141421356 |  |  |  |

Use standard deviation as uncertainty. Since first digit of stdev is 1 , retain two significant digits.

|  |  |  |  |
| :---: | :---: | :--- | :--- |
| Taylor 4.16 |  |  |  |
|  | Data |  |  |
|  | 9.9 |  |  |
|  | 9.6 |  |  |
|  | 9.5 |  |  |
|  | 9.7 |  |  |
|  | 9.8 |  |  |
|  | Mean |  |  |
|  | 9.70 |  |  |

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|  |  |  | 0.171332595 |  |
| :--- | :--- | :--- | ---: | :--- |
|  |  |  | sdom |  |
|  |  |  | 0.06057522 |  |
|  |  |  |  |  |
|  |  | $K=13.16 \pm 0.06 \mathrm{~N} / \mathrm{m}$ |  |  |

