MARCH 3

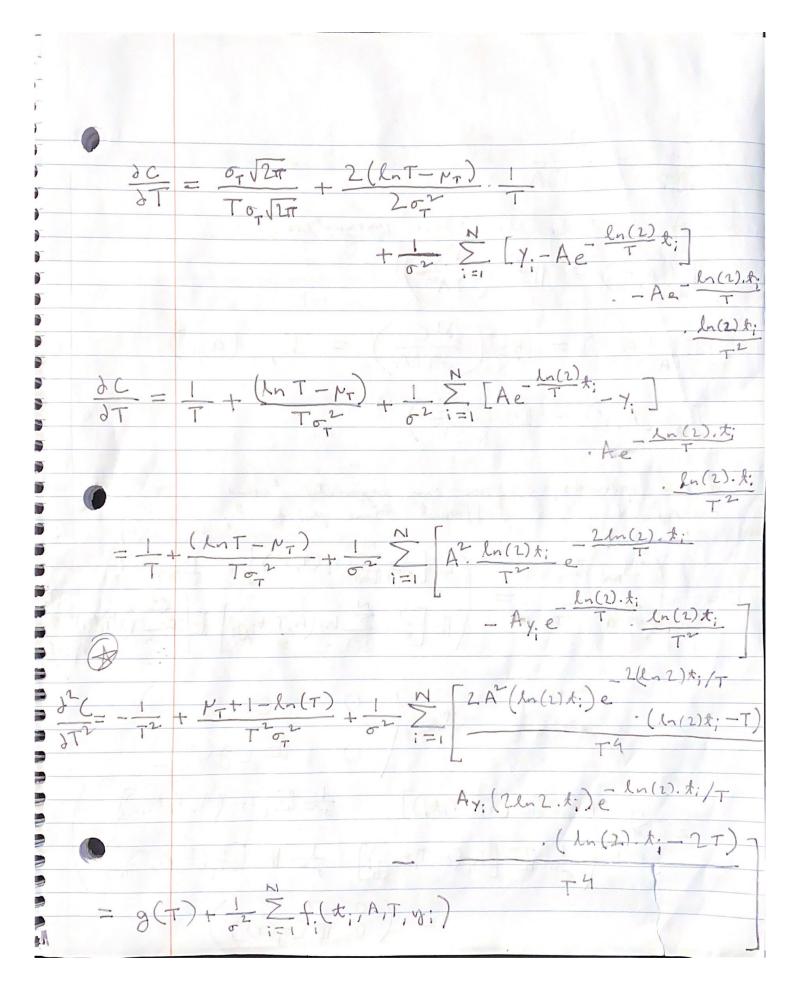
$$mean = 35.41 h$$

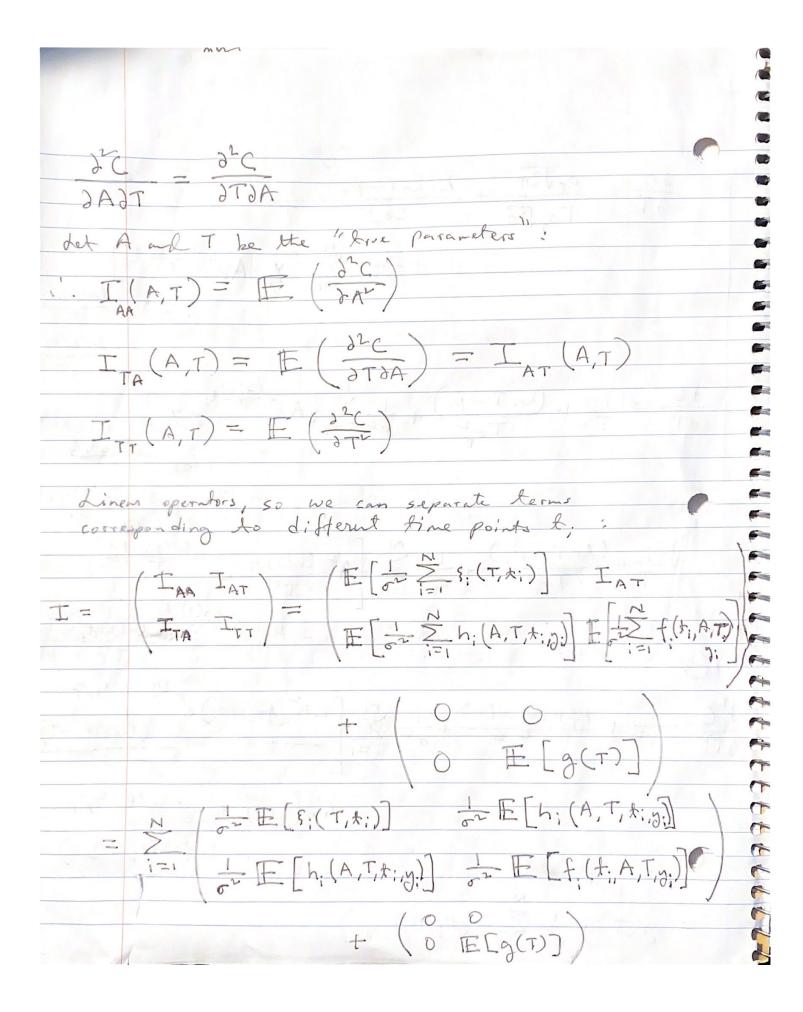
$$SD = 10.6 h$$

$$p = ln\left(\frac{mean^2}{\sqrt{mean^2 + 5D^2}}\right) = ln\left(\frac{35.4^2}{\sqrt{35.4^2 + 10.6^2}}\right)$$

$$\sigma_T = \sqrt{ln\left(1 + \frac{SD^2}{mean^2}\right)} = \sqrt{ln\left(1 + \frac{10.6^2}{35.4^2}\right)}$$

$$L = \frac{1}{100} \exp\left(-\frac{(lnT - p_f^2)}{2\sigma_f^2}\right) \prod_{i=1}^{N} \frac{1}{\sigma\sqrt{2\pi}} \exp\left[\frac{1}{2}\left(\frac{y_i - Ae}{\sigma}\right)^2\right]$$
is the posterior (unnormalized)





$$T = \begin{pmatrix} 0 & 0 & 0 \\ 0 & \mathbb{E}[g(\tau)] \end{pmatrix} + \sum_{i=1}^{N} \mathcal{X}_{i}(A, T, t_{i})$$

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$$\Rightarrow T = \sum_{i=1}^{N} \left[\mathcal{X}_{i}(A, T, t_{i}) + \sum_{i=1}^{N} \mathcal{X}_{i}(A, T, t_{i}) \right]$$

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Quantify "importance"/"Value" of a data point w: = det [] (A, T, t.) = 7. . 2.2 where in and in are the eigenvalues of I; 1. Select 2 points to estimate A and 2. Compute det Z. (A, T, t.) for all i € 31,2...N} 3. Find the 2 points with highest such "weights" 4. Repeat for all combinations of 2 points 5. If there are "K" combinations, this leads to a (K x 2) matrix of most important indices, whose first column corresponds to indices that were ranked highest. Second column for indices ranked second highest 6. Flatten this into a 1-D array and find the indices that occurred first and second most frequently. 7. These two indices correspond to our proposed two most valuable points.

How "expected d'C d'Ta were calculated Suppose we have two points (t,y), (tz.y) $\frac{d^2C}{dTdA} = f(A,T,t,y) + f(A,T,t_2,y_2)$ $F\left[\frac{\partial^2 C}{\partial T \partial A}\right] = \int \int \left[f_1 + f_2\right] P(y_1 | A, T) P(y_2 | A, T) dy,$ = [dy, |dy, f, (y,) P(y,) P(y) + Sdy Sdy f2 (y2) P(y1) P(y1) Sdy fly,) Ply,) Sdy Ply 4 Sdy f2 (y2) P(y2) Sdy, P(y,) ((A,T,t,y) P(b, A,T) dy, + 5° f2(A,T, £2,y2) P(y2 |A,T) dy2