2 Part I papers }
4 " II " } required

21/29

April 30th 1895.

My dear FitzGerald,

I am very sorry to be so late. I was thrown back last term with influenza, & now am behindhand with everything.

I send my questions for Part II. You will see Kinetic Theory of Gases, Thermodynamics & Electrodynamics are vacant, among other things.

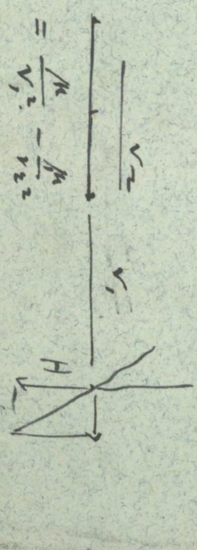
If $\tan\delta = f_1 = \frac{[illegible]}{r^3} + m\left(\frac{A}{r^3} + \frac{B}{r^5} + \dots\right)$

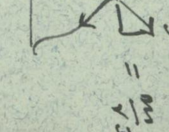
If $\tan\delta' \quad F_2 = 2m\left(\frac{[illegible]A}{r'^3} + \frac{B}{r'^5} + \dots\right)$

$$\frac{r^5 \tan\delta - r'^5 \tan\delta'}{r^2 - r'^2} = \frac{m}{H}$$

$= \frac{4\mu l}{r^3} = \frac{2m}{r^3} \qquad f = \frac{\mu}{r_1^2} - \frac{\mu}{r_2^2}$

$= \frac{\mu}{r^2}\left\{\left(1 - \frac{2l}{r}\right) - \left(1 + \frac{2l}{r}\right)\right\} = \frac{\mu}{(r+l)^2} - \frac{\mu}{(r-l)^2}$





$f = \frac{2\mu l}{r^3} = \frac{m}{r^3}$

I will get the Part I questions as quickly as I can, but I suppose you will have left. Shall I send to Manchester, or if to, where?

When will it be most convenient for you to come on here? We shall be very glad indeed to see you whenever you can come.

I am very sorry indeed to be adding to your work at a busy time & being late.

congratulations on the bicycle.

Yours sincerely

G R Wilberforce.

I am letting the Practical Work stand over till we can talk about it; I suppose that is all right?

21/29