

summers in Iceland, Finland, etc.

Perry is going to look for  
by electrodynamic tension in  
conductors: rather to verify it,  
for the proof assumes only that  
an element of a current is a  
physical entity, as I hope it is,  
and will thus be verified to be.

Yours very sincerely

Harvard

P.S. You had better state the linear  
& planetary theory illustration of  
spectrum lines. I don't think  
it's known: at least Hurburg  
disputed an uncertainty the remark  
you assign to Schuster

24/23 ST JOHN'S COLLEGE,  
CAMBRIDGE.

16. ii. 95

My dear Fitzgerald

I have been away in  
London, and so have not replied to  
your letter. I called at the R.S.  
for your abstract. The objection you  
will be met with as regards your  
theory of grouped constituents  
that you appear to make the  
periods of radiation in a gas  
functions of its pressure?

I still see no reason to  
doubt that the radiation of a  
molecule is not steady and  
regular enough to allow a

distribution therein to apply to its periods. I feel confident the kind of proof that is given cannot cover such a case.

As to my opinion before in the atmosphere (after Tyndall or), it is known that the said vapour of something equally loosely combined is an essential to chemical action in presence of electric discharge etc. over a wide field.

24/23

I have now a theory that the reason HCl is always  $H + Cl$  is connected with the nature of the solvent in which the

electrochemical action occurs, i.e. which acts as the catalytic agent, for dry H and dry Cl don't combine directly. It is easy to see how this would establish a distinction between the two cases.

We are all going to perish here of the cold. My next door neighbour through the wall died suddenly and peacefully last night sitting by his neighbour's fire. He was supposed to be very strong, and had been in the habit of spending his

of definite type at all. Why not  
rest content with Clausius' internal  
thermal energy?

I am afraid I have been  
taking up an uncountable  
amount of your time. I must  
not however do any more until  
I have something positive to  
offer, although negation is  
sometimes a good deal.

Yours very truly

Thomson

24/23