

Department of Physics.

MUSLIM UNIVERSITY,
ALIGARH.

Aug. 27th, 1934

1935

Dear Dr. Krishna Rao,

I hope you do not mind if I bother you with a question. I have pointed out ~~that~~

1934 (cf. Rept. on Abs. Spectra, Bengal. Sympos. p. 29.) that the oxides of the second group, (i.e. BeO , MgO ... ZnO ...) might be linked by true chemical bonds in the crystal, since I had had great difficulties to explain their extremely high melting point.

Can you tell me, if any attempt has been made yet, to find the Raman effect of such substances in the crystalline state? If not,

would you not do it with any one of them, preferably MgO ? (BeO is certainly covalent, but MgO crystallises in NaCl structure and it is just the question if the nature of the bond is determined by this structure or not.)

20/8

34

Dear Dr. Krishna,

I have just received the
reprints of my paper in the Journal,
that is, I received 49 copies. I
ordered, however, more, I think 200
and should like to draw your
attention to it.

I had a long talk with Saker
yesterday. He is prepared to propose
Sir C.V. R.'s name as first president
of an All India Academy himself

but the question of heady auctor must
be decided constitutionally by the
So. Congr. itself. I myself, however,
think that at least part of the
office (editorship etc.) has to go
with the president. He insists,
however, that everything is done
constitutionally, e.g. that Sir C.V.
comes to Calcutta himself to be
elected (no dictatorship), that
the Bangalore Ac. under these
circumstances shall form a
regional Acad. and he adds that
just now every one will select

Sir C.V. as president but that many
people will object to have the headquarters
in Bangalore.

What are your news.

In haste

Yours sincerely

Rahman

I think Sahu understood quite well from
our conversation that many people are
sick of the whole business and want
some compromise. I shall write to Sir C.V.
in a day or two.

S'inde, July 7th 34.

Dear Prof Krishnan,

I shall be in Calcutta on the end of the month indeed, I do not know, however, the actual time of arrival. Probably we will arrive on July 27th and leave on the 29th or 30th.

We shall put up, I think, at the Grand Hotel and I will arrange to notify you from Aligarh, before we leave.

I am going to Bangalore on duty leave since I want all my accumulated leave next year going to Europe. You could do me a great favour which would enable me to stay a day or two longer in Calcutta. Could you not arrange something what you

may call a discussion or a colloquium in a
very small circle, with your pupils and may
be Prof. D. M. Bore and his pupils on molecular
spectra or on questions of chemical linkage
and fix the date for July 26th. That would
give me a good reason to leave already on the
25th and I am very much interested to see
the facilities of Calcutta, especially the
libraries, which I hope to use sometimes
in future. If it is possible, please
write me officially to Allahabad, where
I shall be in a few days.

In the meantime

I remain your sincerely

Raman

Dear Prof. Krishnan,

I am returning the ~~to~~ proof of the paper and I am sorry to say that it contains a number of misprints. In the figure the R has to become a K, but I think this can be repaired by a sharp knife and a new block is not necessary.

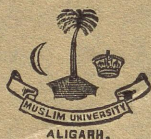
As you probably know, I am coming from Germany and some of the mysteries of the English language are not yet solved by me. Here in Simla is no one whom I could consult and I would be extremely thankful if you would have a look at it from this point of view. Particularly I am feeling unsafe in the spelling of chemical names.

I do not know how many reprints we will get free of charge, nor what is the price of extra reprints. I will want, however, 150 extra reprints, if the price is not too unreasonable.

With many thanks

Yours sincerely

Raman.

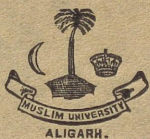


1935

Dear Dr. Krishnan,

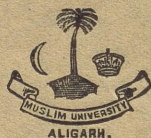
Many thanks for your letter. Please do not bother about your staying here, there is no hotel in Aligarh, but Haruni and myself shall put you up between us quite comfortably.

We are just working on the absorption spectra of ^{inorganic} nitrates and sulphates, which all in the vapour state have the same absorption spectrum as the organic molecules like $C_2H_5 \cdot O \cdot NO_2$ etc. and not that of the corresponding ions. In the vapour state they are apparently covalently bound. I am just trying to correlate the photo-dissociation processes and for this purpose I have



read your paper of last year ~~and~~
 my experience in Bangalore again and
 found figures like $\text{NaNO}_3 = 449.2 \text{ kcal.}$
 cal. from the critical tables. I can-
 not verify these figures in the Landolt
 Borstkin ~~prop~~ tables. If I add to
 the heat of formation from the elements
 the required energies to split $\text{O}_2 \rightarrow 2\text{O}$
 cal. in order to get the atomic heats
 of formation, I get entirely different
 figures. Could you let me know, how
 these figures are derived ~~at~~? I would
 thank you very much for an early
 reply. - I think there was a second paper
 in Farad. Trans., but I cannot find it,

Department of Physics.



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Could you spare me a reprint?

With thanks

Yours sincerely
R. K. M. S. S.

Department of Physics.



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ALIGARH.

Nov. 3rd

Dear Professor Krishnan,

having returned from my long
leave I should like to ask you
whether you have tried the experi-
ment to find out whether S_2
and Se_2 vapours are dia-
or para magnetic? We are still
very much interested in this ques-
tion.

With kind regards from Anant
and myself I remain
in haste,

Yours sincerely
R. Srinivas

DEPARTMENT OF PHYSICS
MUSLIM UNIVERSITY,
ALIGARH.

3/4/35
36

Dear Dr. Keister, an,
coming back to Aligarh,

I found here the 2
copies you got for us
and I should like to
express my deep obli-
gation for the trouble,
you have taken.

Please let us know,
by which train you
will arrive here.

Many thanks again
Yours sincerely
R. Kumar

BLAIR Ahmad Simla

Department of Physics



MUSLIM UNIVERSITY
ALIGARH.

23/5/35

Dear Dr Krishnan,

I have not sent reprints of my Bangalore Lectures to anyone in India, since I have not too many ^{whole volume} and I believe that they will be sent to all of us directly from Bangalore in a short time. Otherwise, you will get it of course from me.

Probably you have seen the paper on CaI in the last Bangalore Proceedings. We are going to work on these substances a bit more, since I am not yet satisfied. I wonder, if you could not find out, if in the oxy that we have really

CaI or $(\text{CaI})_2$, i.e. if the crystals
are para or diamagnetic. The substance
can be prepared quite easily and keeps
for $\frac{1}{2}$ to 1 hour under CS_2 . Since
it is only a qualitative measurement,
it should be easy. Will you not get some-
one to do it? It would be of very great
interest.

Could you do me a very great favour
and send me those numbers of *NATUR-
WISSENSCHAFTEN* in which contain the
article of J. Weiler, page 125 (Febr. 22)
and page 139 (März 1) for a few days
to the above address? I want it very
much and urgently.

With kind regards.

Yours sincerely
Ramanujam

The two nos
sent on 2/1/35