

28th March 1952

Dear Professor Van Vleck,

Herewith I am enclosing the typescript of a short note for publication in the "Letters to the Editor" column of the Physical Review. I shall be glad if you will kindly forward it and also get the proofs corrected by one of your assistants, as it will save time. We should like to purchase 200 copies of reprints of the letter when it is published.

With kind regards,

Yours sincerely,

Professor J.H. Van Vleck,
Department of Physics,
Harvard University,
Cambridge, Mass.

Encl:

May 3, 1952

Dear Professor Van Vleck,

I sent you about a fortnight ago, a draft of the Abstract of the paper by Dr. S.K. Roy and me on Evjen's Method of Evaluation of the Madelung Constant to be prefixed to the paper. Since then we have been working on the more general series

$$S = \sum_{(\xi, \eta, \zeta)} \frac{(-1)^{\xi+\eta+\zeta} (\xi^m + \eta^m + \zeta^m)}{(\xi^2 + \eta^2 + \zeta^2)^{\frac{m+1}{2}}}$$

in which m is a small positive integer: this more general series also finds application in crystal physics. While writing out the paper on this general series, we found that ~~some~~ of the statements made in the paper on Madelung series require modification. Some of the details were made to refer specifically to the case of division into cubic shells which we thought was a more reliable case, and a brief remark was added to cover the case of division into infinite plane shells; whereas now we find that the former case is not quite so definite as the latter.

I have therefore made the necessary alterations, in red ink in a copy of the original typescripts and I am enclosing it herewith, along with a fresh copy in which all the alterations have been incorporated, including the abstract. I shall be much obliged if you will kindly get these incorporated while correcting the proof.

I am extremely sorry for having overlooked some of the points in the preparation of the original manuscript.

With kindest regards ^{to} both of you,

Yours sincerely,

Professor J. H. Van Vleck,
Department of Physics,
Harvard University,
Cambridge, Mass.

As I mentioned in my first letter,
I should like to purchase 200
copies of reprints of the paper.

16th April 1952

Dear Professor Van Vleck,

It was indeed very kind of you to have forwarded the note by Dr. Roy and me on "Evjen's method of evaluation of the Madelung constant" to the Physical Review for publication. I have received a reply from Professor Goudsmit acknowledging the receipt of the note, and expressing his preference to publish it as a regular paper rather than as a letter to the Editor - which we accept. He had also given the draft of the abstract which he had sent along with the paper; but we would prefer the following abstract to be prefixed to the paper:

" A convenient method of evaluating the Madelung series is to group the terms into unit cells, and then sum the contributions from the different cells. It is emphasized that even such a grouping, which involves neighbouring terms only, may affect the sum. This happens, for example, with the CsCl type of lattice, if the unit cell chosen is the usual body-centred cube; whereas by choosing an oblique elementary cell containing one ion, the sum remains unaltered. A criterion is given for the choice of a suitable elementary cell".

Profess^{or} Goudsmit thinks that this can be done in the galley proof.

With kind regards to both of you,

Yours sincerely,

Professor J.H. Van Vleck,
Harvard University,
Lyman Laboratory of Physics,
Cambridge 34, Massachusetts,
U.S.A.

HARVARD UNIVERSITY

DEPARTMENT OF PHYSICS

JEFFERSON PHYSICAL LABORATORY
CAMBRIDGE 38, MASSACHUSETTS

July 9, 1952

Sir K. S. Krishnan, Director
National Physical Laboratory of India
Hillside Road
New Delhi 12, India

Dear Krishnan:

I am sorry if I have embarrassed you by not acknowledging receipt of the corrections to be made in the proof of your paper. The proof has now arrived and these corrections have all been made. I have returned the original proof to the American Institute of Physics. Since the article is a short one and your corrections are all very clear, I see no particular point in delaying publication by waiting for you to see proof, and have therefore written the American Institute of Physics to this effect. If, on the other hand, you feel that I have not made the corrections in a satisfactory fashion, I would suggest your cabling the American Institute of Physics, cable address "AMPHYSICS", to withhold publication until they receive a proof from you. Any very minor alterations can be made in page proof, but they must not upset the paging, and it is not the policy of the Institute to send a "second proof" to authors, such as you intimated you would like to see.

I enclose a reprint order, since it seems more satisfactory for you to fill this out yourself than for me to do so. For one thing, I am not clear whether you have funds to pay the \$15 a page publication charge which most institutions in America are contributing as their share towards financing publication costs.

I am very sorry indeed that you will not be at the Magnetism Conference in Washington this September. This is not as pretentious a congress as the one at Strasbourg, but still your presence would have been an asset since I know how much you added there.

Sincerely,



J. H. Van Vleck

JHVV:mk

Enc.

Evjen's method of evaluation
Madelung comb-

HARLARD / VAN VLECK

July 9, 1952

Miss Ruth F. Bryans
Publication Manager
American Institute of Physics
57 East 55th Street
New York 22, New York

Dear Miss Bryans:

Enclosed herewith is the corrected proof of the Krishnan article. It is not entirely clear to me whether he wanted to see proof, as in his original correspondence he asked me to correct proof for him and later on said he would like to see final proof. As the paper is a pretty straight ahead one, I see no reason why it should not go ahead with being printed, unless Krishnan demurs by cabling as suggested in the enclosed carbon.

I also enclose for your files some further copy which Krishnan sent me indicating exactly what changes he wished made in the proof. These have all been attended to so there is nothing that you need take care of, but I thought perhaps you would like these manuscripts for your files--or at least this will get them out of our own.

I am sending Krishnan the reprint order blanks, and presume he will be able to return them before the deadline for ordering reprints. If not, I will mention right now that he desires two hundred reprints. It seemed better for him to place the order himself, since I do not know what position he will take regarding the \$15 a page publication charge.

Sincerely,

J. H. Van Vleck

JHVV:mk



Prof. J. H. Van Vleck
Lyman Laboratory of Physics
Cambridge 34, Massachusetts
U. S. A.



AIR LETTER

**VIA AIR MAIL
PAR AVION**

Prof. K. S. Krishnan
National Physical Laboratory
of India
Hillside Road
New Delhi, India

MESSAGE MUST APPEAR ON INNER SIDE ONLY
NO TAPE OR STICKER MAY BE ATTACHED

IF ANYTHING IS ENCLOSED, THIS LETTER
WILL BE SENT BY ORDINARY MAIL

FIRST FOLD

SECOND FOLD



Harvard University

Lyman Laboratory of Physics
Cambridge 34, Massachusetts

April 7, 1952

16 Apr 1952

Prof. K. S. Krishnan
National Physical Laboratory of India
Hillside Road
New Delhi, India

Dear Krishnan:

This is simply a line to acknowledge receipt of your letter to the Editor regarding Evjen's method. I am forwarding it to the Physical Review with the recommendation they publish it. It is conceivable they may wish to run it as a short article, as Goudsmit is trying to prevent Letters to the Editor serving in place of short articles. In that case, we will add a short Abstract.

It was nice to hear from you.

Sincerely,

J. H. Van Vleck

J. H. Van Vleck

JHVV/ml

FOLD SIDES OVER AND THEN FOLD BOTTOM UP AND SEAL.
NO OTHER ENVELOPE SHOULD BE USED.

6 FEB 1952

HARVARD UNIVERSITY
DIVISION OF APPLIED SCIENCE

28 January 1952

*Pierce Hall
Cambridge 38, Massachusetts*

Sir K. S. Krishnan
National Physical Laboratory of India
New Delhi, India

Dear Sir Krishnan:

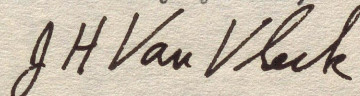
The Office of Naval Research is sponsoring a Symposium on Magnetism to be held at the University of Maryland on September 2 to 6, 1952. There are not sufficient funds available to make it possible to sponsor a full-scale international conference with a large representation from abroad. However, we should like very much to have you attend and present a paper, if you have means at your disposal for taking care of your traveling expenses. We should be happy to have your suggestions regarding possible subjects on which you would be willing to speak. These need not necessarily be subjects in which you are currently active. Since we hope to organize the conference by subject-matter, we would appreciate having one or two alternatives. These may be either reports of original work or in the nature of review. A very tentative list of topics includes:

- (1) Technical Magnetization
- (2) Exchange Forces
- (3) Ferrites
- (4) Paramagnetism
- (5) Antiferromagnetism
- (6) Experimental Technique

If you find it possible to come, we suggest that you apply immediately for a passport and visa. As delays and difficulties sometimes arise, we would appreciate it if you would keep us informed of your progress in this respect.

Please address replies to Dr. R. M. Bozorth, Bell Telephone Laboratories, Murray Hill, New Jersey, who is acting for the Program Committee.

Sincerely yours,



J. H. Van Vleck
R. M. Bozorth
(For the Committee)

JHVV:rm
Via Air Mail