

3 Novembre 1946.

Ecole Normale Supérieure  
Laboratoire de Physique  
45 Rue d'Ulm  
Paris V  
France.

Mr G Reber,  
212 W. Seminary Ave.  
Wheaton, Illinois.  
U. S. A.

Dear Mr Reber,

Thank you for your letter dated October 7 th. and reprint that you sent me. I was greatly interested by your results.

I notice that you are specially studying the "Cosmic static", while our principal aim is the study of the Sun. We are now building 5 receivers on 0,75; 1,5 2,5 ; 3,5; 4,5 meters wavelength and also the arrays which will be used to follow the Sun constantly.

As for the theoretical part, I have seen nothing published in Europe where nobody seems to have yet published anything on Cosmic static. General attention is especially turned towards the Sun on which subject numerous notes have been published in "Nature" (London 1945-1946). These studies have been published and undertaken in England, Australia and New Zealand by Military Operational Research Groups.

"Nature" has published a theoretical note by O. Kiepenheuer (of Fribourg, French occupation zone in Germany) on solar radiation between 2 and 8 meters. One of our collaborators, J. Denisse, has established a theory of solar radiation between 2 and 8 meters, which explains correctly facts that have been observed (correct amount of the received energy, circular polarization, variation with the sunspots cycle.), when he supposed that he is dealing with the frequencies of gyromagnetic rotation of the free electrons in the magnetic field of the sunspots. He has analysed the conditions in which the generated wave can escape the ionized medium. This article will soon be published in the "Revue Scientifique" I will send you a reprint.

I am myself studying in laboratory the generation of electromagnetic waves in ionized media in a magnetic

*reprint rec'd  
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field and I will keep you in touch with my results.  
Thanking you for your trouble,  
I remain,  
yours faithfully,

J-L Steinberg

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