

### III-8-5. Comment

L. BIERMANN

*Max-Planck-Institut für Physik und Astrophysik  
München 23, Germany*

In the context of the discussions, which we have just heard, some remarks of the changing role of astrophysics may not be out of place. The cosmic character of cosmic radiation was already known for a very long time before the astrophysicists took serious notice of it. I still remember a lecture by Prof. Heisenberg in the Potsdam Astrophysical Observatory, shortly after the particle nature of the primary cosmic radiation had been recognized. There followed the observations of Forbush and Ehmert of the solar flare events, and Fermi's work on interstellar magnetic field and secondary acceleration, which made the subject of the

origin and propagation of cosmic radiation largely one of astrophysics.

When listening to the very fine talks of Prof. Rossi and Prof. Powell, especially when looking at the diagram which Prof. Rossi put at the blackboard, I could not help feeling that astrophysics have now entered the field of cosmic radiation and earth storms really on a broad front. To my mind this is a fruitful development. Let us hope that these interrelations become stronger still, because it seems that only cooperation from many sides will enable us to solve the important and difficult problems which lie still ahead of us.

---

### III-8-6. Expression of Appreciation

S. N. VERNOV

*P. N. Lebedev Institute of Physics  
3-a Miusskaya 3, Moscow, U. S. S. R.*

I wish to take the opportunity of this closing session to express deep and sincere gratitude to the organizers of the Conference. The new direction in research called for a joint meeting on cosmic rays and earth storms. One can easily realize what enor-

mous difficulties had to be overcome in organizing too large a conference.

So let me say "Arigato" to all the Japanese scientists here and their assistants for their wonderful hospitality and cooperation.

---

### III-8-7. Expression of Appreciation

Y. SEKIDO

*Physical Institute, Nagoya University  
Nagoya, Japan*

I am very glad to hear that you enjoyed the Conference, in spite of insufficient arrangements by Japanese colleagues. Now, I

hope you rest yourself before you may be tired too much.

Domo arigato gozaimashita.