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Satellite Results Given By Kraushaar

Professor William L. Kraushaar delivered the Physics Department’s weekly colloquium last Monday, February 11, on the subject of his recent research on the dimensions of our galaxy. The intensity was too great for the rays to be confined to the circular system; assuming the rays come from the entire universe leads to the unlikely conclusion that cosmic-ray density is roughly the same throughout the universe, while light and radio-wave intensity varies greatly in the universe.

Professor Kraushaar concluded by applying his results to analyzing the current controversy between the “Big Bang” and the “Steady State” theories of cosmology. While this experiment says nothing about the “Big Bang” theory, it attacks the basic hypothesis of the “Steady State” theory: protons are constantly being created in space.

If this is so, by symmetry antiprotons must also be made; the interaction of these two gives rise to the gamma-rays detected by this satellite. From the observed intensity, the annihilation rate can be predicted; this should equal the production rate. Calculations show the two are off by a factor of 1000; this would seem to imply that either protons or antiprotons are made at a rate different from that of antiprotons, or else the steady-state theory does not hold.

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