



INDIAN INSTITUTE OF SCIENCE,
BANGALORE, INDIA.

POSTAL ADDRESS:
HEBBAL, BANGALORE.

TELEGRAMS:
"SCIENCE", BANGALORE.

Ref.

DEPARTMENT OF PHYSICS.

Date 15th August 1940.

Dear Dr. Yukawa,

I should be very grateful if you would kindly send me a reprint of your original paper on the theory of nuclear forces (Proc. Phys. Math. Soc., Japan, 17, 48, 1935), which I regret to say is not available in Bangalore. If you yourself have no spare copies left, I should be grateful if you would tell me how I might get hold of one, possibly from the publishers. The Proceedings of the Physico - Mathematical Society of Japan have been taken by this Institute only since 1937, so that the volume containing your original paper is unfortunately not here.

I have recently sent you the reprints of two papers published in the Proceedings of the Indian Academy of Sciences and I hope they have reached you safely. One gives a classical theory of a spinning particle with radiation reaction and a complete treatment of the general case has just been sent for publication to the Royal Society. The extension of this theory to meson fields has also been carried out and it will likewise appear in the Proceedings of the Royal Society. The other paper in the Academy deals with the existence of new states of the heavy particles, and in particular predicts the appearance in nature of a proton of charge $2e$ and $-e$. Experiments are being carried out to find these particles.

With kind regards,

Yours sincerely,

H. Bhabha