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24th October, 1956.

My dear Jeffrey,

Thanks for sending me your note to McCrea. It will be interesting to see what he makes of it. I doubt if he will discuss it in principle, which is the aspect that matters.

Do you recall that in his answer to me he indicated that general relativity only supplied a forecast of the physical experience of moving bodies, provided they move in geodesics, or under gravitational forces only, as though there were something intrinsically different in accelerated motion taking place under other sorts of force. To facilitate the discussion of this distinction the latest model time-machine will be constructed without rockets, and will move under gravitational forces only, i.e. a heavy gravitating body, moving under forces which need not be specified, will precede the time-machine proper at such a distance as to maintain the necessary acceleration, or rather the whole kinematic programme laid down for the earlier model. I am not sure just what physical instrumentation would be needed to guide these vessels in their pre-assigned programme, and a

consideration of this may reveal whether McCrea's distinction between gravitational and other forces is vital in this problem.

Sincerely yours,