

Comment of the Remarks of Gamba.

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As pointed out in my preceding paper, the basic obstacle in the way of accepting the definition *B*) is that the energy so defined would not necessarily be an additive quantity for systems in relative motion. Consider for example an ideal fluid flowing round a closed circular pipe. Its total energy in the rest frame of the pipe (and of its centre-of-mass) is uV where u , given by (8), contains a term involving the pressure. If, however, we were to calculate the energy of each

volume element in its own rest frame, apply the appropriate Lorentz transformation, and add the results, then we should obtain an expression in which the pressure term is absent.

Incidentally, quantity of money, like electric charge, is presumably a scalar, and so the same problems do not arise for that case as for the case of energy. In a static situation, all observers (including Poincaré) will agree about the amount of money in a safe.