Absorption of Tachyons in Extended Relativity: An Answer to Basano.

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In this paper of ours we borrowed eq. (1) from previous articles; but such equation was trivially miscalculated. We did not realize it, since *the physical consequences* of the wrong eq. (1) were *exactly equal* to the ones coming from its correct version [$M_B \equiv M$]:

$$(1) \quad 2M|\mathbf{P}| = (m^2 + \Delta)|\mathbf{P}| + E\sqrt{(m^2 + \Delta)^2 + 4m^2 M^2}, \quad E \equiv \sqrt{\mathbf{P}^2 + M^2}.$$

It follows that eq. (3) should read

$$(3) \quad |V| = \sqrt{1 + 4m^2 M^2/(m^2 + \Delta)^2},$$

but, again, the physical consequences that we deduced from the old eq. (3) are *still valid*.

All the other equations appearing in this paper are *correct*, since they have nothing to do with eqs. (1), (3), but they derive from the *correct* eq. (2) of ref. (1). In particular, eqs. (2), (2'), (4), (5), (6), (7), (8) are *all correct*. Moreover, *the whole logic structure of the paper* (which was not based on the particular form of eqs. (1), (3)) *remains totally unchanged, as well as all the physical results*. Even the physical results (and the drawings!) contained in ref. (1,2)—where the wrong form of our eqs. (1), (3) appeared—still *hold*.

Furthermore, let us take advantage of the present occasion for pointing out that at page 212: i) the inequation at line 20 should read $-2m|\mathbf{P}| < \Delta + m^2 < 0$, or rather $\text{Sup} [-2m|\mathbf{P}|, -M^2 + m^2] < \Delta + m^2 < 0$; ii) the word *equation* at line 6 from the bottom should read *quotation*; iii) the word *insuperluminal* at line 4 from the bottom should read *on-Superluminal*.

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(1) M. PAVŠIČ and E. RECAMI: *Nuovo Cimento*, **36 A**, 171 (1976).

(2) M. PAVŠIČ, E. RECAMI and G. ZIINO: *Lett. Nuovo Cimento*, **17**, 257 (1977).