Children of Newton control Einstein’s Followers

From the Diary of Phineus Cocklebottom

Got the chance to chat to those Einstein fellows. Capital chaps. Can’t speak highly enough.

V\_e=V-v\_e

Solving yields:

P\_2-P\_1=m\Delta V-v\_e\Delta m\,

and, using dm=-\Delta m, since ejecting a positive \Delta m results in a decrease in mass,

\sum F\_i=m\frac{dV}{dt}+v\_e\frac{dm}{dt}

If there are no external forces then \sum F\_i=0 (conservation of linear momentum) and

m\frac{dV}{dt}=-v\_e\frac{dm}{dt}

Assuming v\_e\, is constant, this may be integrated to yield:

\Delta V\ = v\_e \ln \frac {m\_0} {m\_1}

or equivalently

m\_1=m\_0 e^{-\Delta V\ / v\_e} or m\_0=m\_1 e^{\Delta V\ / v\_e} or m\_0 - m\_1=m\_1 (e^{\Delta V\ / v\_e} - 1)

Einstein’s Followers control Children of Newton

Dear Mrs. Professor Elena Cocklebottom,

I am writing to accept your lovely invitation to attend the Afternoon Tea on Sunday. Algey (that is, Dr. Archibald) and I shall be delighted to attend. I believe I can convince my maid to make her Chocolate Torte. It really is quite fantastic. Of course, I rather expect the Gentleman shall be too involved in their intellectual pursuits to really pay mind to such things, but I rather think we ladies (with the exception of Mrs. Gatting, of course, such a blue-stocking) shall have a very entertaining time; it’s much easier to consider Suffrage and other important Political Issues when the men are involved in calculations, don’t you find?

With most excellent regards,

Mrs. Davina Archibald