

Abstract Submitted  
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**Total Relativistic Energy At Low Speeds Must Include Rotational and Vibrational as Well As Linear Kinetic Energies** STEWART BREKKE, Northeastern Illinois University (former grad student) — All masses will have no motion, linear, rotational and or vibrational kinetic energy. In an earlier paper it was found that the total energy a low speeds is  $E_{total} = m_0c^2 + 1/2m_0v^2 + 1/2I\omega^2 + 1/2kx^2$ . Since, according to Einstein,  $K = (m - m_0)c^2$ , the total kinetic energy of a mass at low speeds must therefore be  $K = 1/2m_0v^2 + 1/2I\omega^2 + 1/2kx^2$ .

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