Relativistic Momentum

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Note: for v<<c p=mv

Note: for v=c p=infinity

Relativistic Energy

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$$E = \frac{mc^2}{\sqrt{1 - \frac{v^2}{c^2}}}$$
 Note: for v=0 E = mc²

Note: for $v << c E = mc^2 + \frac{1}{2} mv^2$

Note: for v=c E = infinity (if m is not 0)

Objects with mass always have v<c!