

Abstract Submitted
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Planck Force is Tension of Spacetime (General Relativity Estakhr's expression of Einstein Field Equation) (AHMAD REZA ESTAKHR, Physicist — As we know Planck force is often useful in scientific calculations as a ratio of electromagnetic energy per gravitational length. Thus for example it appears in the Einstein field equations, describing the properties of a gravitational field surrounding any given mass: $G_{\mu\nu} = 8\pi\frac{G}{c^4}T_{\mu\nu}$, where $G_{\mu\nu}$ is the Einstein tensor, and $T_{\mu\nu}$ is the energymomentum tensor. But I got in this way $A^{\mu\nu} = \frac{1}{G_{\mu\nu}}$ where $A^{\mu\nu}$ is the Estakhr tensor which is inverse of Einstein tensor. so then we have: $8\pi T_{\mu\nu}A^{\mu\nu} = F_p$ as you can see in my representation of Einstein field equations Planck force turn out to be actually "a tension constant of the space time fabric" $F_p = T$.

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