

Abstract Submitted  
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**Higgs field is “not” the process that gives mass to free particles**

AHMAD REZA ESTAKHR, Researcher — When a free particle move in higgs field, higgs field “resist” against motion of that free particle, and then free particle gain “drag force” by interacting with higgs field. so Higgs field is “not” the process that gives mass to free particles. because higgs field “Decelerate” free particle by resistance. and also from einstein’s special relativity theory we know that the process that gives mass to free particle is “difference between square of total energy and square of momentum” (through a binomial conjugates)  $m_o = \frac{\sqrt{(E^2 - P^2 \cdot c^2)}}{c^2}$  and when there is “no” difference between total energy and momentum  $E = P \cdot c$  the free particle is photon. now, there is a special point here, “how is it possible that one free particle gain rest mass” through “two” process!? why Higgs field is not considered a force. while it can decelerate free particle by “resist”!? the Higgs field which just causes a “drag” = force not mass.

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