

Abstract Submitted  
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**Dynamic Relativity: How Extra Gravity Halos are Projected from Galactic Cores** JOHN HUENEFELD, No Company Provided — Adding an inward dynamic to General Relativity provides the basis for ongoing space-time contraction within a gravitational field. Unlike Hubble expansion, this contraction field is non linear with distance and is dependent on the amount of concentrated matter generating the field. Rather than assuming additional mass to boost the orbital velocity of stars around a galactic core, this field acts to boost the acceleration of Newtonian gravity to achieve rotation curves consistent with observation. Using only the normal matter within the galaxy, it can be shown how Extra Gravity Halos (EGH), are generated by galactic nuclei. As the search for dark matter particles continues to bear no fruit, it becomes ever more important to consider alternatives. The gravity scale factor, which falls easily from the math, has just the right shape with radius to replicate the effects of assumed dark matter distributions. Not only do these contraction fields explain galaxy rotation curves, they also explain the Bullet Cluster, and Ultra Diffuse galaxies composed of either nearly all or nearly no dark matter.

John Huenefeld  
No Company Provided

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