

2. Something From Something

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Abstract

This is the second paper in a series intended to breakdown the original paper, Natural Mechanics (<http://vixra.org/abs/1911.0294>).

In this paper we build upon infinite space by discussing empty space, the spatial field, variations in densities (charges) within the spatial field, charge-charge interactions and, finally, the discharge of Nature's essential building blocks, photons.

Keywords: Natural Mechanics, Cosmology, Relativity, space, field, photon

1. Empty Space

Thought Experiment #1

When everything (including traces of energy and quantum fluctuations, etc.) is removed from space, all that remains is space itself. This is not a void but space.

1.1 Spatial Field

If this empty space possesses a field, then Nature can build all of existence with no additional inputs.

1.1.1 Variable Densities

The spatial field would naturally possess variations in the densities because all known fields do. The more dense regions of this field will be called "charges".

1.1.2 Charge-Charge Interactions

In general, charges interact by accreting but, depending on their orientation, some charge-charge interactions can repel.

When sufficient charges have amassed they discharge as an original photon – a quantum of electromagnetic force.

1.1.3 Photons

Thought Experiment #2:

Assumption: All matter is comprised of entangled photons.

If an interaction causes the emission of a photon, then the photon existed within the interacting matter prior to its discharge.

Therefore, photons wouldn't be created in the moment of discharge but through another means.