

9.29 - Expanding and Contracting

Russell

"Mathematical Relations are Constant

The mathematical relations of any [wave](#) of [energy](#) never change. All [dimensions](#) **expand and contract** in [opposite directions](#) of the same [ratio](#)." [[Mathematical Relations are Constant](#)]

"All [dimensions](#) simultaneously expand and contract in opposite directions of the same [ratio](#)."

"Contraction [pressure](#) is in [inverse](#) ratio to the square of the distance, area, plane orbit or [time](#) unit, and to the cube of the volume."

"Expansion [pressure](#) is in direct [ratio](#) to the [square of the distance](#), area, plane, orbit or [time](#) unit, and to the cube of the volume." Russell, [The Universal One](#) ↗, pg 162.

"Every generative (contractive) effect of [motion](#) begins its cycle at its maximum in the region of lowest pressure, loses one half of every [dimension](#) of it at the high pressure point of its cycle wave, and exhausts its effect at the place of its beginning."

"Every radiative (expansive) effect of [motion](#) begins its cycle at its minimum in the region of the lowest [pressure](#), gains one-half of every [dimension](#) of it at the high pressure point of its cycle wave, and attains its maximum at the place of its ending." Russell, [Genero-Radiative Concept](#), part 6b.

These being the case increasing energy is a smaller orbit (oscillation) and slower spin (vibration). Likewise decreasing energy is a larger orbit (oscillation) and faster spin (vibration). Another attribute mentioned by [Russell](#) is contracting is increasing in energy through multiplication. This means increasing energy is attractive - up to a point. Energy will increase in direct proportion to harmonicity and attraction or mutual [affinity](#). Systems of increasing energy are multiplying energy and augmenting attraction/affinity ([gravity](#)). While systems of decreasing energy are dividing energy and increasing repulsion/radiation. In the graphic ([Figure 9.11 - Compression Wave with expanded and contracted Orbits](#)) we see increasing orbit radii (oscillation) as less energy (dispersion) and decreasing orbit radii as attraction or compression.

These reciprocally locked attributes (contraction, expansion, spin, orbit velocity, mass, attraction, etc.), which [Russell](#) calls "[dimensions](#)", are not limited to the ones given. According to his theory there are eighteen of these attributes being actually nine dual or oppositely (reciprocal) paired attributes. The orbiting body and its orbit are modified syncothetically or concertedly as each and every one of these attributes reciprocally changes.

The universal [principles](#) above apply to the various [dimensions](#), attributes, aspects or parameters of all vibratory and oscillatory systems whether waves, vibrations or planetary orbits. In the list below I've added in a few extra "[dimensions](#)" to account for geometric projections. These attributes or dimensions are more fully covered in [Part 12 - Russells Locked Potentials](#).

[<< 9.28](#) - - [Part 09 -Table of Contents](#) - - [9.30 >>](#)