

1040-01-226

**John A. Fossa\*** (jfossa@oi.com.br), Caixa Postal 1631, Campus Universitário, Natal, RN, 59.078-970, Brazil. *The Doubly Divided Line and Plato's Material Elements.*

It will be shown how the mathematical theory of the Divided Line structures the ontological and epistemological doctrines of Plato's mature philosophy, including the theory of emanation later explicated by Plotinus and others. A consideration of the Material Elements, however, reveals a strange anomaly, which can, however, be explained by the Doubly Divided Line. This causes the tight unity, represented by the geometric mean, to become a looser connection, represented by continued proportion. The looser structure, characteristic of the physical world, allows the two means to dismember into the structure of the fourfold, so typical of Aristotelian speculation on the nature of the physical world. Thus, the mathematics lends credence to the Neoplatonic interpretation of Plato. (Received February 21, 2008)