

Refutation of Heider inspired international relation theory

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We assume the method and apparatus of Meth8/VL4 with Tautology as the designated *proof* value, F as contradiction, N as truthity (non-contingency), and C as falsity (contingency). The 16-valued truth table is row-major and horizontal.

From: academia.edu/27360936/A_Formal_Semantics_of_International_Relations by Fabian Schang

§1. Heider

LET: p, q, r, s: x, y, R, z;
 ~ Not; + Or; & And; > Imply, greater than; < Not Imply, less than, ∈
 % possibility, possibly, for one or some; # necessity, necessarily, for every or all.

$$R(x,z)= R(x,y) \times R(y,z) \quad (3.2.1)$$

$$(r\&(p\&s))=((r\&(p\&q))\&(r\&(q\&s))) ; \quad \text{TTTT TTTT TTTT TFTT} \quad (3.2.2)$$

Remark: Removing the "R" functor deviates further from tautology. (3.2.2.1)

$$(p\&s)=((p\&q)\&(q\&s)) ; \quad \text{TTTT TFTT TTTT TFTT} \quad (3.2.2.2)$$

What follows from Heider rendered in Eq. 3.2.2 as *not* tautologous is its further negation as irrelevant.

§2. Coherent theorem

Every political relationship $R(x,y)$ (where $R \in \{E,F\}$) is coherent. (4.3.3.1.1)

$$((r<((r=r)+(r@r)))>(\#r\&(p\&q))) ; \quad \text{TTTT TTTT TTTT TTTT} \quad (4.3.3.1.2)$$

$\models_{\text{H}} \forall x \forall y \neg (R(x,y) \wedge \neg R(x,y))$ (4.3.3.2.1)

$$(\#p\&\#q)\&\sim((r\&(p\&q))\&(\sim r\&(p\&q))) ; \quad \text{FFFN FFFN FFFN FFFN} \quad (4.3.3.2.2)$$

Eqs. 4.3.3.1.1 implies 4.3.3.2.1 (4.3.3.3.1)

$$((r<((r=r)+(r@r)))>(\#r\&(p\&q))) > \\ ((\#p\&\#q)\&\sim((r\&(p\&q))\&(\sim r\&(p\&q)))) ; \quad \text{FFFN FFFN FFFN FFFN} \quad (4.3.3.3.2)$$

Remark: As expected Eqs. 4.3.3.2.2 and 4.3.3.3.2 have identical table results, as *not* tautologous.

§3. Hegemon as demiurge in the world

LET: r: uc_pi Π

$\forall x \forall y \forall z \Pi(x) > \Pi(y) \wedge (\Pi(y) + \Pi(z) > \Pi(x))$ (5.2.Riv.1)

$$(\#p\&(\#q\&\#s))\&((r\&p)>(r\&q)) \& ((r\&q)+((r\&s)>(r\&p))) ; \\ \text{FFFF FFFF FFFN FFFN} \quad (5.2.Riv.2)$$

Therefore we deny "the hegemon acts as a demiurge in the wor[l]d".