Noetic Currents

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We define the following morphisms:

Definition 1. Let $\mathbb{P}, \mathbb{P}'$ be partial orders with hydrosphere V, V', respectively. A linear transformation $T : V \to V'$ is called a *speculation* when, for each polarity $a \leq b$ of the spanning forest of V, there exists a chain $c_1 \leq \cdots \leq c_n$, and coefficients α_i, $i = 1, \ldots, n_1$, such that

$$T([a—b]) = \sum_i \alpha_i [c_i—c_{i+1}]$$

If, furthermore, each $\alpha_i \neq 0$, then T is called a *canalization*. The extension of $\{\text{speculation}, \text{canalization}\}$ is called a *noetic current*.

Because of the additive transitiveness property, it is clear that each noetic current defines its own category.