

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 $T : V \rightarrow V'$ is called a *speculation* when, for each polarity $a \leq b$ of the spanning forest of V , there exists a chain $c_1 \leq \dots \leq c_n$, and coefficients $\alpha_i, i = 1, \dots, n$, such that

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

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

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