

### TRANSFORMING ENVELOPES & TRACES

$\text{act } t \cdot \text{envelope} = \text{envelope} \cdot \text{act } t$

$\text{act } t \cdot \text{traceP} = \text{traceP} \cdot \text{act } t$

instance Action Transformation Envelope where

...

instance Action Transformation Trace where

...

instance Action Transformation Diagram where

$\text{act } t (\text{Diagram } (\text{Dual } ps, e \text{ tr})) =$

$\text{Diagram } (\text{Dual } (\text{map } (\text{act } t) ps) \text{ act } t e, \text{ act } t tr)$

MONOIDS: THEME & VARIATIONS

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**CONCLUSION**