

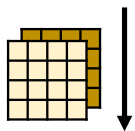
## Tensor Property Identifier (§4)

Reduce Dependency: ...

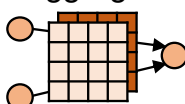
Broadcast: ...

Size: ...

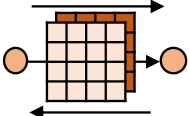
Value: ...



Aggregate



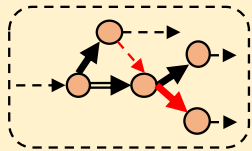
Forward



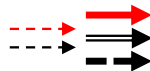
Backward

# TA

Tensor Program  
with Tensor Property

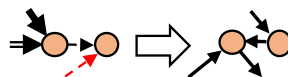


Different  
Tensor Property

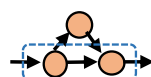


## Tensor Property-Aware Optimization (§5)

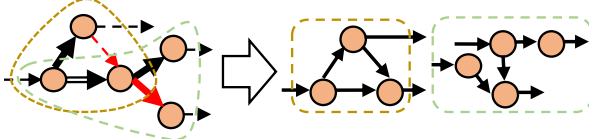
Algebraic Equivalent  
Graph Transformation



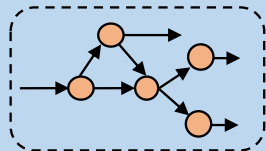
Non-Convex  
Kernel Mapping



Lightweight Plan Searching



Input  
Tensor Program



Optimized  
Tensor Program

