



{Hyperedge<sub>1</sub>,  
..Hyperedge<sub>N</sub>}

Joint Hyperedges

I: Input tensor dimension; O: Output tensor dimension;  $\oplus$ : Concatenation

input\_dim = feature length of graph nodes; hidden\_dim = dimension of intermediate tensor within hidden layers;  
hyperedge\_dim = length of hyperedge node feature x number of agents