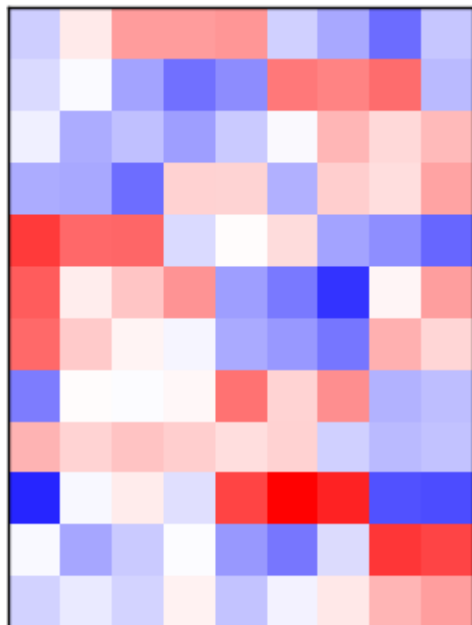
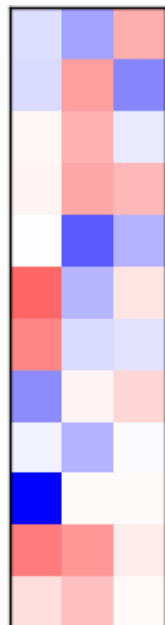


Original Data



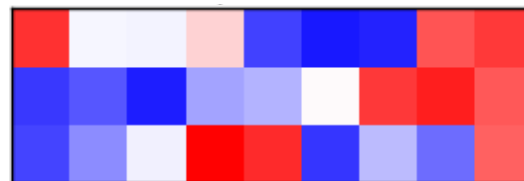
$\approx$

Loadings



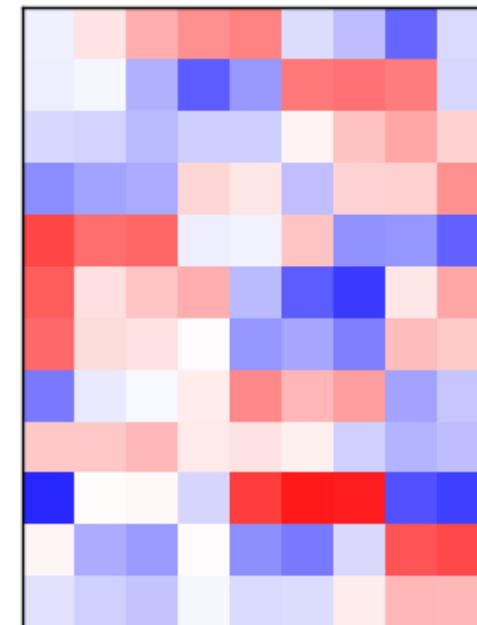
$\times$

Components

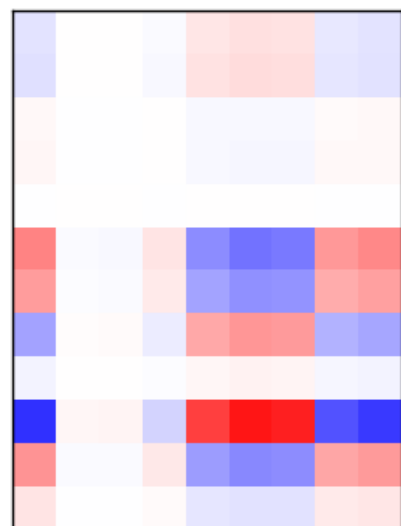


$=$

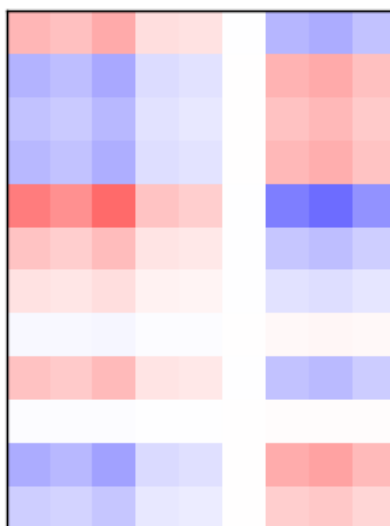
Reconstruction



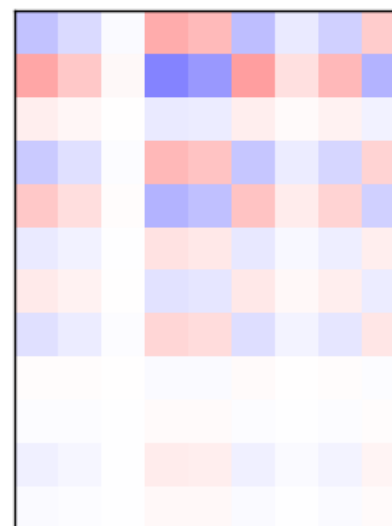
Sum of  
Rank-1  
Matrices



$+$

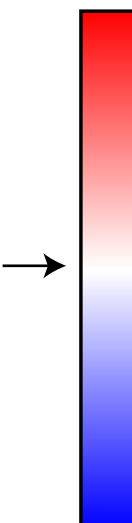


$+$



zero  $\rightarrow$

Positive  
Numbers



Negative  
Numbers