



$v$  : maintain variance  
 $c$  : bring covariance to zero  
 $s$  : minimize distance

$T$  : distribution of transformations  
 $t, t'$  : random transformations

$f_\theta, f'_{\theta'}$  : encoders  
 $h_\phi, h'_{\phi'}$  : expanders

$I$  : batch of images  
 $X, X'$  : batches of views  
 $Y, Y'$  : batches of representations  
 $Z, Z'$  : batches of embeddings