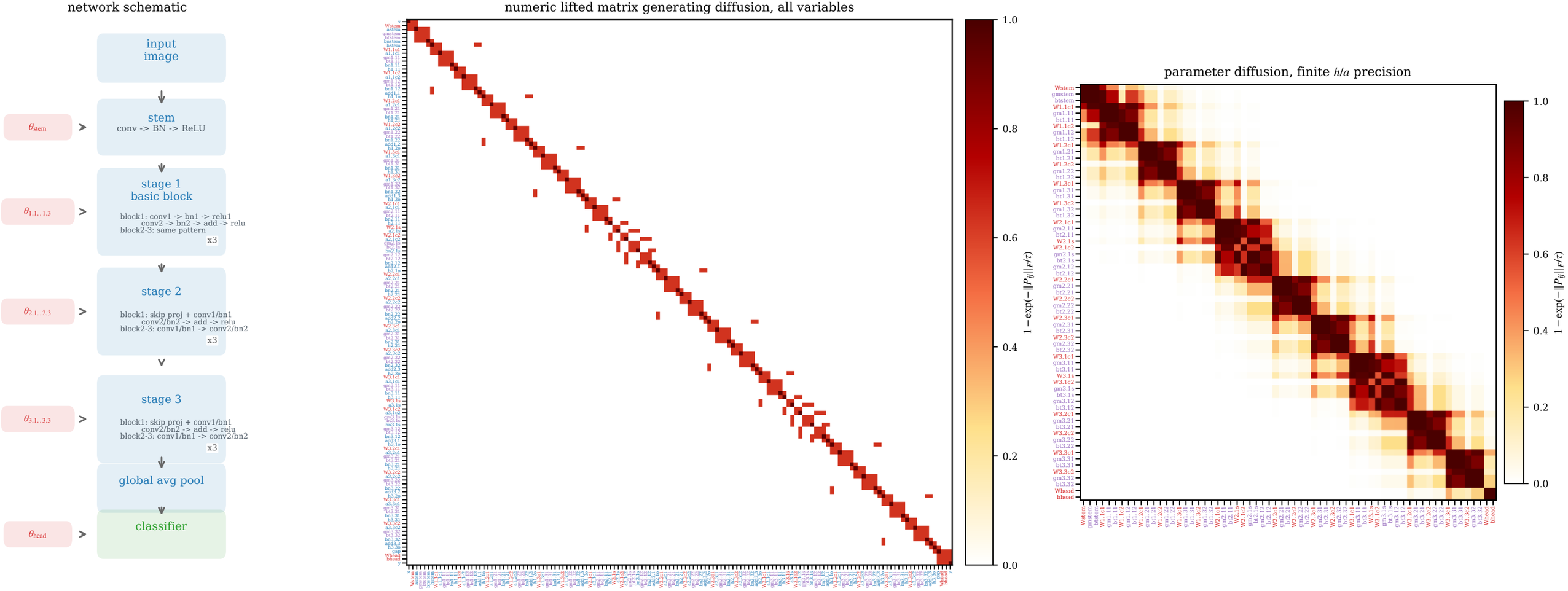
network schematic
input image
stem
conv -> BN -> ReLU
θ_{stem}
stage 1
basic block
block1: conv1 -> bn1 -> relu1
conv2 -> bn2 -> add -> relu
block2-3: same pattern
x3
$\theta_{1.1..1.3}$
stage 2
block1: skip proj + conv1/bn1
conv2/bn2 -> add -> relu
block2-3: conv1/bn1 -> conv2/bn2
x3
$\theta_{2.1..2.3}$
stage 3
block1: skip proj + conv1/bn1
conv2/bn2 -> add -> relu
block2-3: conv1/bn1 -> conv2/bn2
x3
$\theta_{3.1..3.3}$
global avg pool
classifier
θ_{head}
numeric lifted matrix generating diffusion, all variables
$1-\exp(-\|P_{ij}\|_F/\tau)$
parameter diffusion, finite *h/a* precision
$1-\exp(-\|P_{ij}\|_F/\tau)$