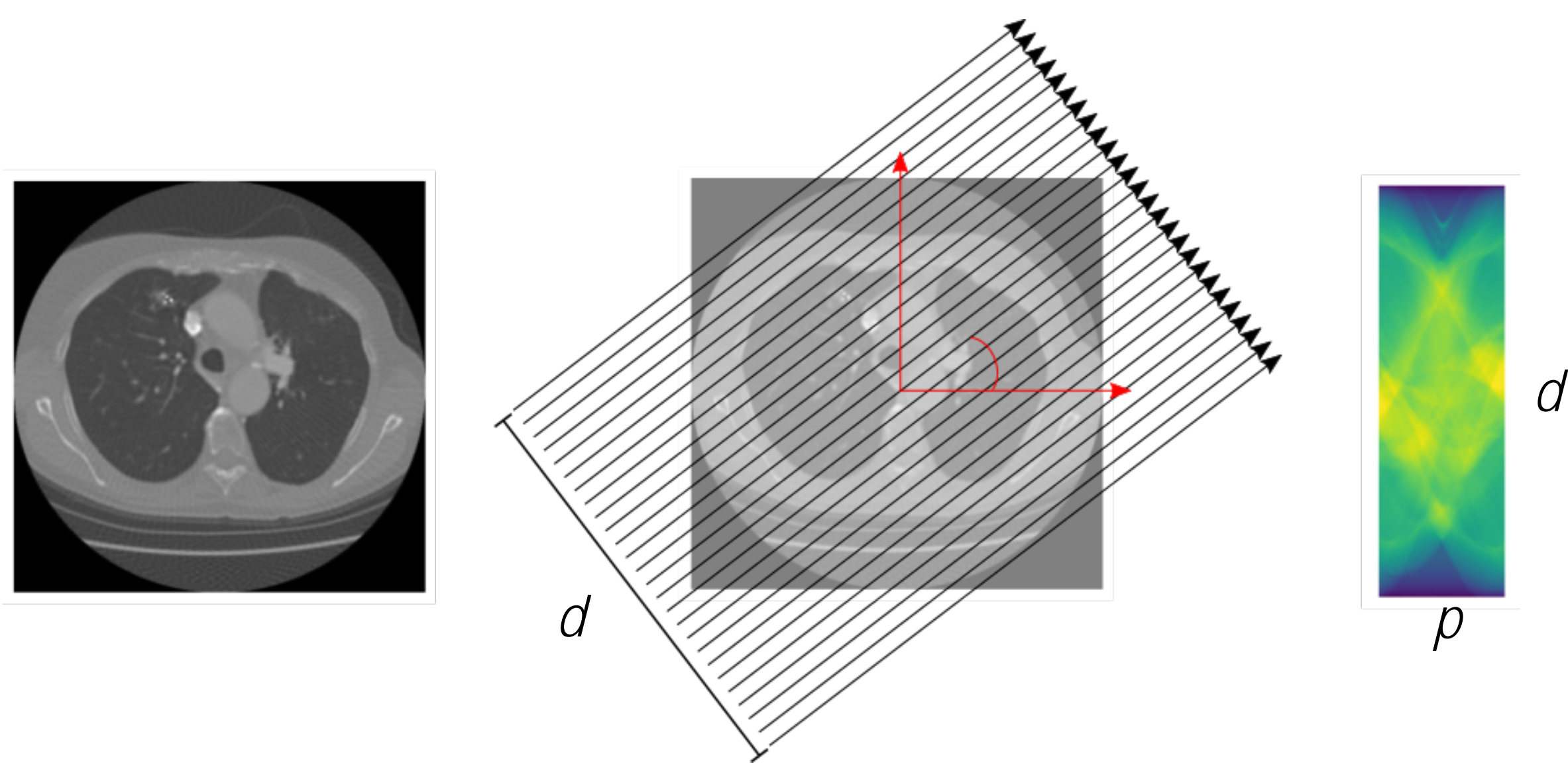


2LB, ~%oYB, ~ A'f s'L'LH, >By...; WB, ~

/ >> ~, ~%oL~ 2LB, ~%oYB, ~%a Y' >...; >Bp

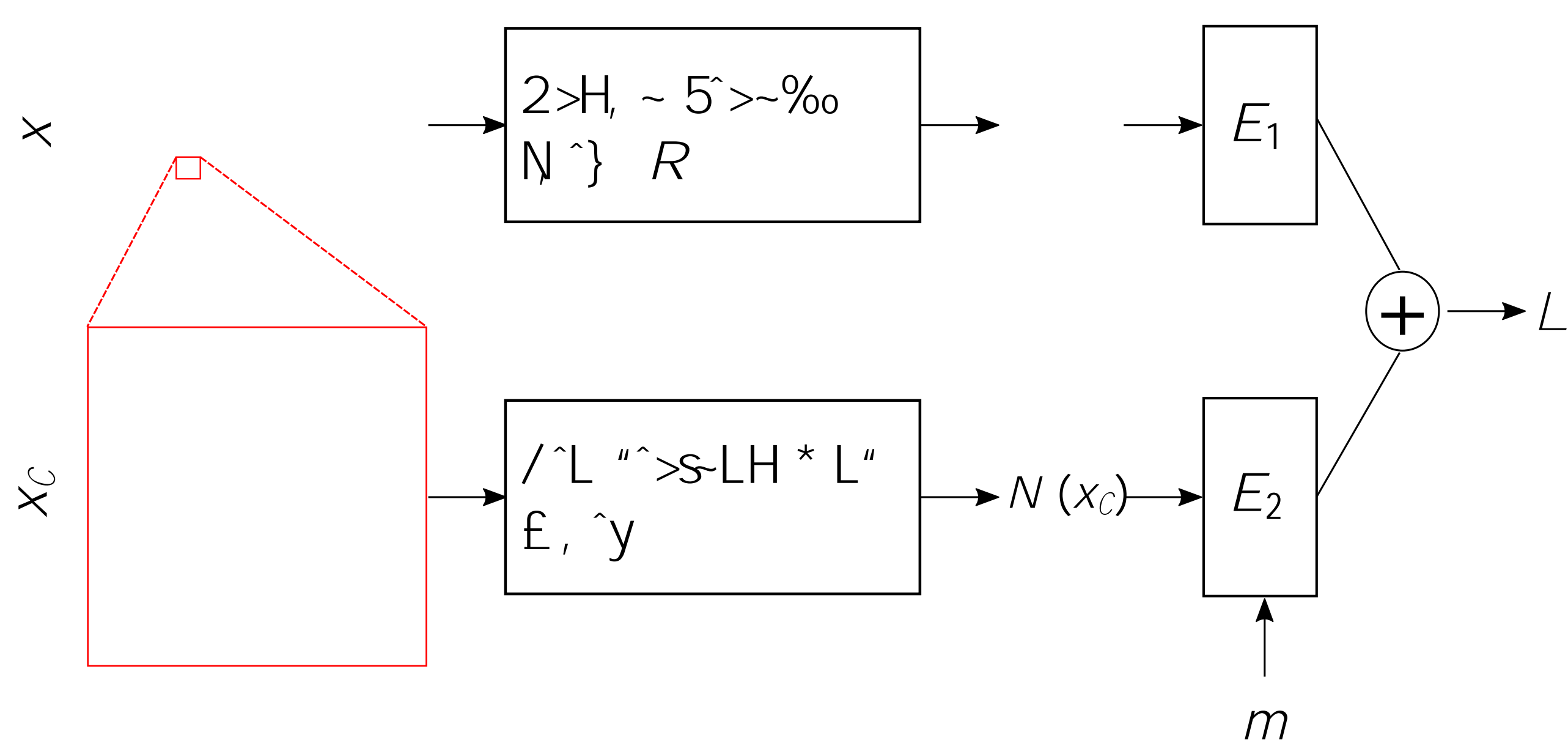
C di kVi 'dc fl 'YZV

- ~, } ..Y"LH5, } , n'>.p' ~ 5
- 3 / >n~, %on C>s' Y'pL> "p B, ~Hs, ~%o~HHL'f%on "L>"} L~" ...>~%o
- 7 ž L>"p ^ %o%oBp >B>~BL^ HYL, L'x., %oL, "pL; ^>~>Hs, ~



- 3.>~%oC'f ~ 5 "pL ">nL" %o>Hs" LH f sp NL'EL^ ...; WB, ~ >nL%o
  - 2LB, ~%oYB, ~, N>, } , n'>.pBš >nL x N, } >} L>%oLH%o, n'>} f
- $$f = Rx + n,$$
- fl'x., ^>, ~, N"pL %o>BL, NB, ~%oL~ "LB, ~%oYB, ~%o
  - 2>H, ~ " ^>~%o } } >BpL%f sp "pL } L>%oLH%o, n'>}
  - ~, ^L%o. ~Hs-n", %o } >~ B> ¥HQL'L~ s"L^..L">, ~%o A">s-LHN, } > ...L ^>s-LH^ 5 š >nL B>%oL^

C Zi] dY



- / >> ~, ~%oL~ 2LB, ~%oYB, ~
- $$\min_{x \in [0,1]^N} \frac{1}{pd} Rx - f^2 + H(N(x_c) - m)$$
- 5>~%o } >, ~%o7 š L^>~%o } LH %o>s-n ^, ">, ~ CL^%o~%oTj(xc) ", ...; H'YBL ^L>%oB> ¥, , ys-n ~ 5^LB, ~%oYB, ~%o
- $$x(m) = \arg \min_{x \in [0,1]^N} \frac{1}{pd} Rx - f^2 + \frac{1}{j} \sum_j H(N(T_j(x_c)) - m) + \lambda TV(x_c)$$
- 3, l ~ ^, ...s-n 5 >C, š H'YBL ^L>%oB> ^ NB"%s >, Y~H "pL B', ...s-n A, Y~H>^ ¥ "pL n^>HL~ HL%oL~ " Y..H>L B>~ AL E ^T^L~ >%o
- $$x^{i+1} = x^i - (E_1(x^i) + G E_2(x^i))$$
- 5>s-s-n 3Ys>AL ~ >%oB>, ~ \* L"E, ^y 5>s-s-n, N>B>%oB>, ~ -L"E, ^y N >HCL^%o> ¥Y%on "pL t >%oZ^>HL~ 3n~) L"p, H

HZVahi 'X i d'j i 'dc i eVXZ

- 2LB, ~%oYB, ~%oNHQL'L~" } >n~>~Bš %dB, ~" ^, LHA¥ m
- 3.>BL, NY~HL^HL^L^" s-LH^ 5^LB, ~%oYB, ~%o p = 50

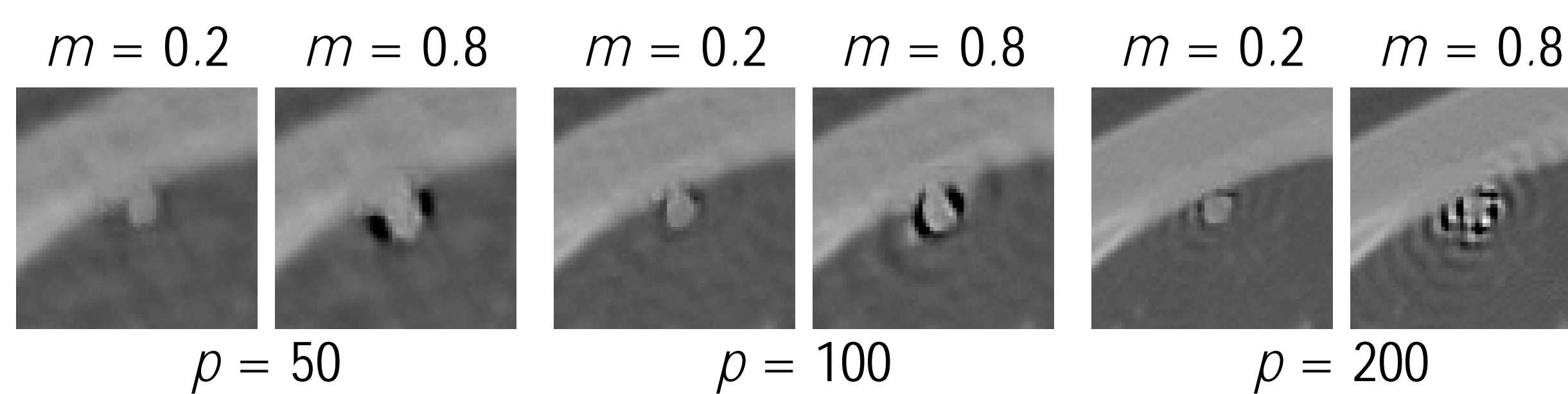


HLB^L>%on m t s'L'LH, >By ...; WB, ~ s-B'L>%on m

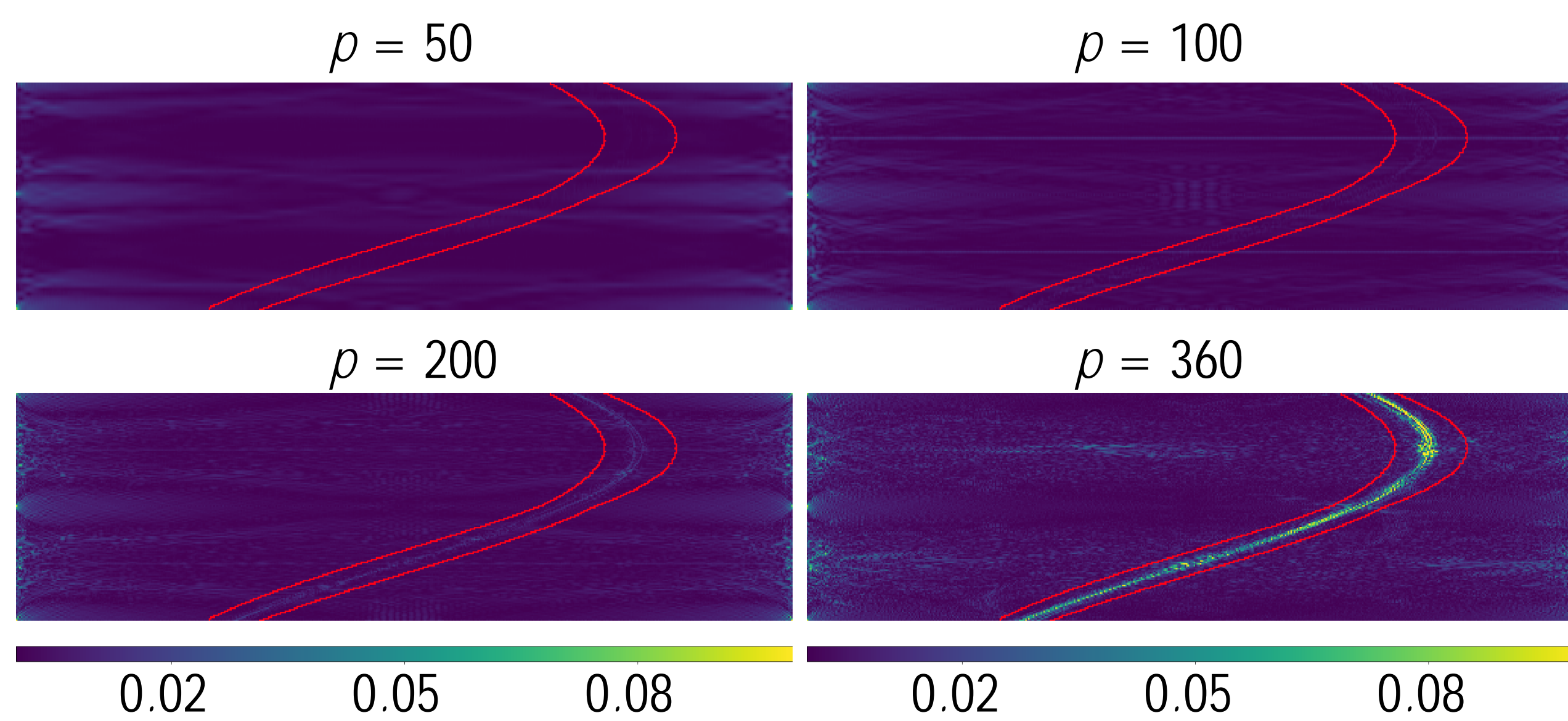
- 3^, ~n Bp>~nL%oNm C'f%o> ¥Y~^L>%oB
- 3} > Bp>~nL%oNm ^L>%oBš >nL%o %o~fB>~ Bp>~nL%o~ "pL >...L>^>~BL, N"pL ~, H'Y L

'kZhi ^ Vi 'dc dc i] Z HZH'Yj Vah

- 2LB, ~%oYB, ~ 5L~HL~B¥", >, f ^>nL^ C>s' >, ~%o~ "pL ^LB, ~%oYB, ~ N^NL'EL^ ...; WB, ~ >nL%od, ^ } >~¥...; WB, ~%o%o, ~n HL'Cs, ~%B>~ L>H", %oCL^L> ^ NB"%o



- 2LB, ~%oYB, ~, H'YBL ^L>%oB>, ~s "pL ~, H'Y L %o>%o^", ^LB, n~š L N^ } , ^L ...; WB, ~ >nL%od, ^NL'EL^ ...; WB, ~ >nL%o' %o., %oAL", } , H'Y "pL ~, H'Y L f sp, Y' >~¥%o~, N"pL L'x., ^>, ~



- / >> B, ~%oL~B¥, %o "pL H'YBL ^L>%oB>, N"pL s~L's ^ >~H "pL L'x^L's ^ L^, ^ (e\_i - e\_o) s-B'L>%oE sp s-B'L>%on ~Y} AL^, N>~nL%op

	%o	p	$\frac{1}{pd} Rx - f^2 \cdot 10^5$	$N(x)$	$(e_i - e_o) \cdot 10^5$
, ... } š s-n N^ %o> N	S^M	50	2.09	0.003	-1.50
		100	3.36	0.099	-1.63
		200	30.16	0.423	309.01
		360	62.15	0.526	658.71
, ... } š s-n N^ >nL N	S^B	50	5.58	0.960	-3.73
		100	3.30	0.957	-1.26
		200	5.82	0.922	9.40
		360	13.45	0.802	86.85
t. /	S^B S^M	50	$5.23 \cdot 10^5$	0.54	$-1.00 \cdot 10^5$
		100	$2.73 \cdot 10^5$	0.55	$-1.72 \cdot 10^5$
		200	$2.52 \cdot 10^5$	0.55	$-1.81 \cdot 10^5$
		360	$2.52 \cdot 10^5$	0.55	$-1.82 \cdot 10^5$

š 5H>">yL~N, } ^> s, "" 3> YL Z L"> 5pL Y-n š >nL H>A>%oB ~%o Y} &Z' ^ >H š >nL H>A>%oL%oY'BL s-s > CL 'Z' >B } ..L^HL^NL^L~BL H>A>%o, NY~n~, H'Y L%o~ ~ 5 %o~%o ) LHB> ..p%oB%o