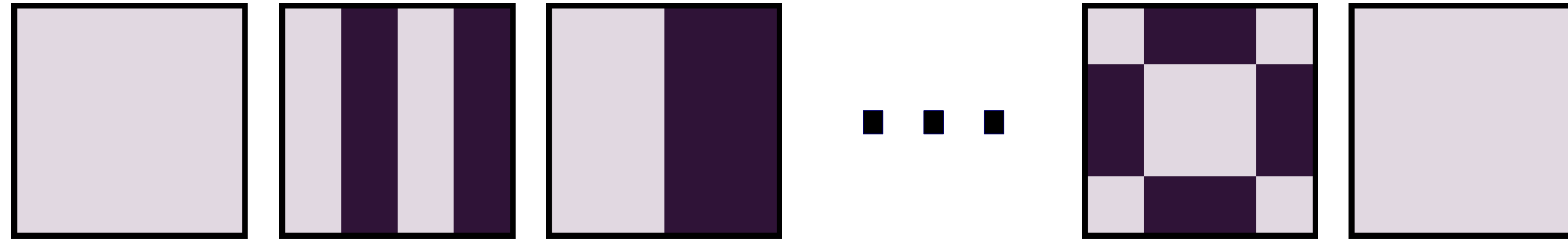
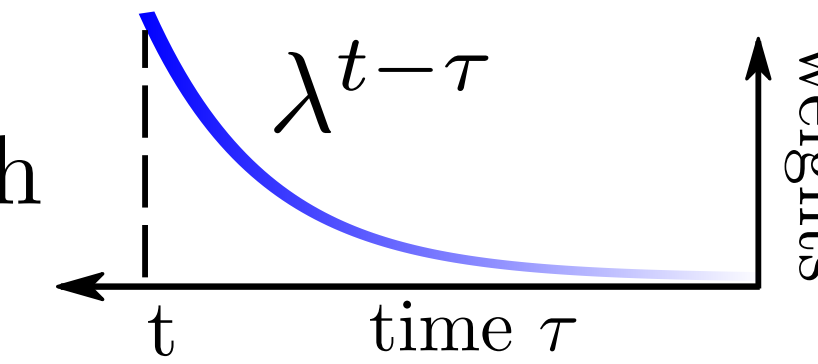


Recursive least-squares estimation of the dynamic transfer matrix

Input fields \mathbf{a}_t
(modulated in
amplitude
and/or phase)

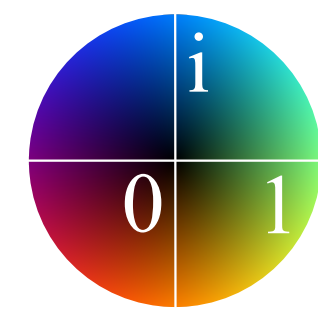


Recursively solve $\min_{\mathbf{X}_t} \sum_{\tau=1}^t (\lambda^{t-\tau} \|\mathbf{y}_\tau - \mathbf{X}_t \mathbf{a}_\tau\|^2) + \delta \lambda^t \|\mathbf{X}_t\|^2$, with

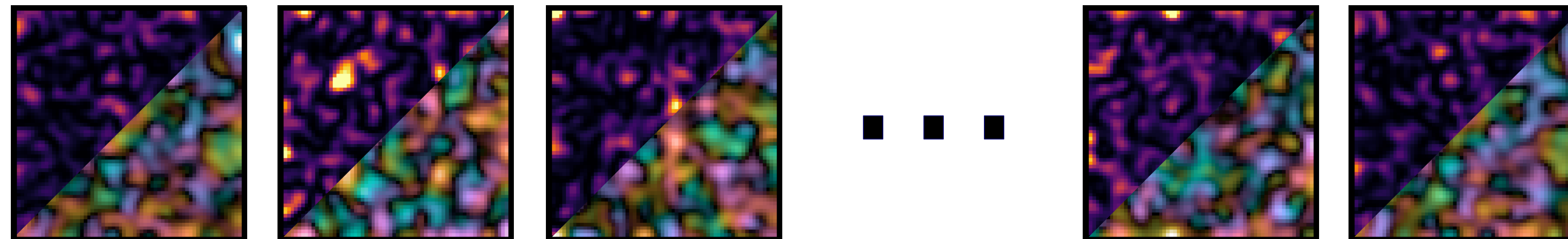


Dynamic transfer
matrix \mathbf{X}_t

Intensity (a.u.)



Output patterns \mathbf{y}_t
(complex or
intensity-only)



Arbitrary light control

