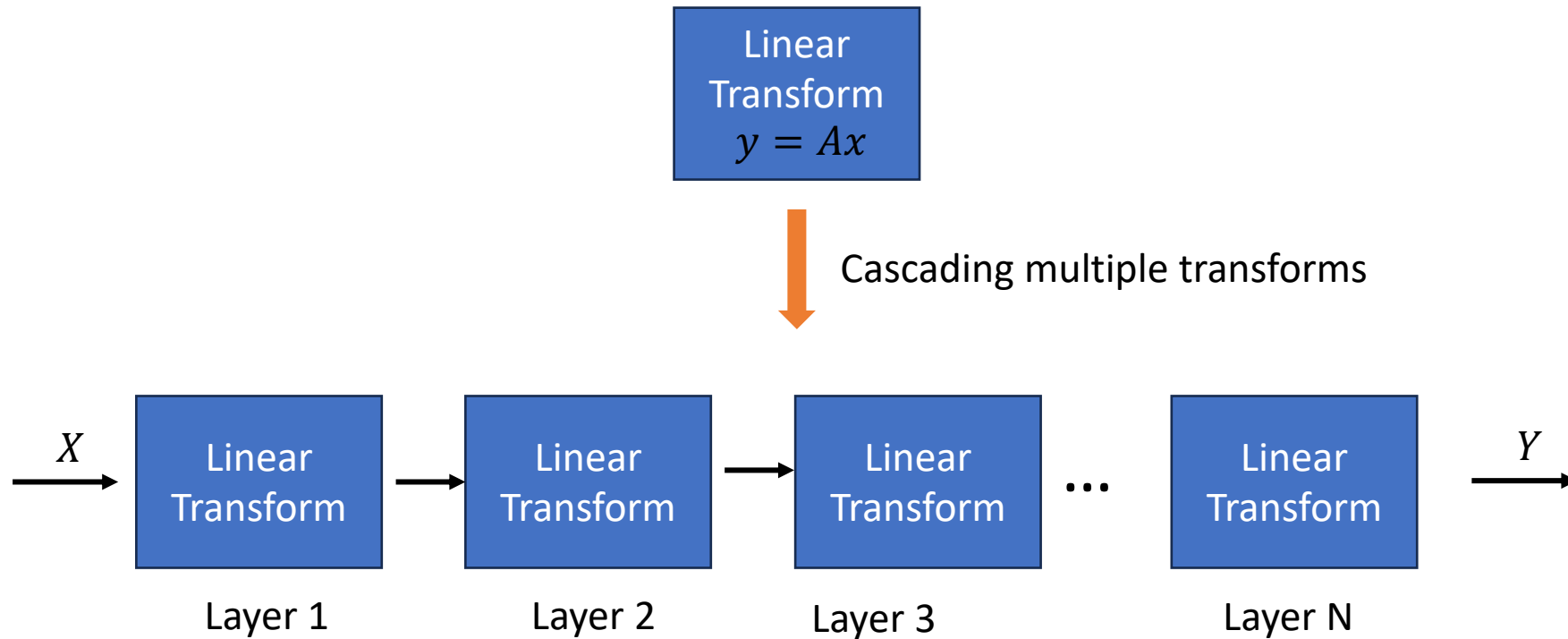


LION Kick-off Meeting

Mustafa Yildirim

Multiple Linear Transformations



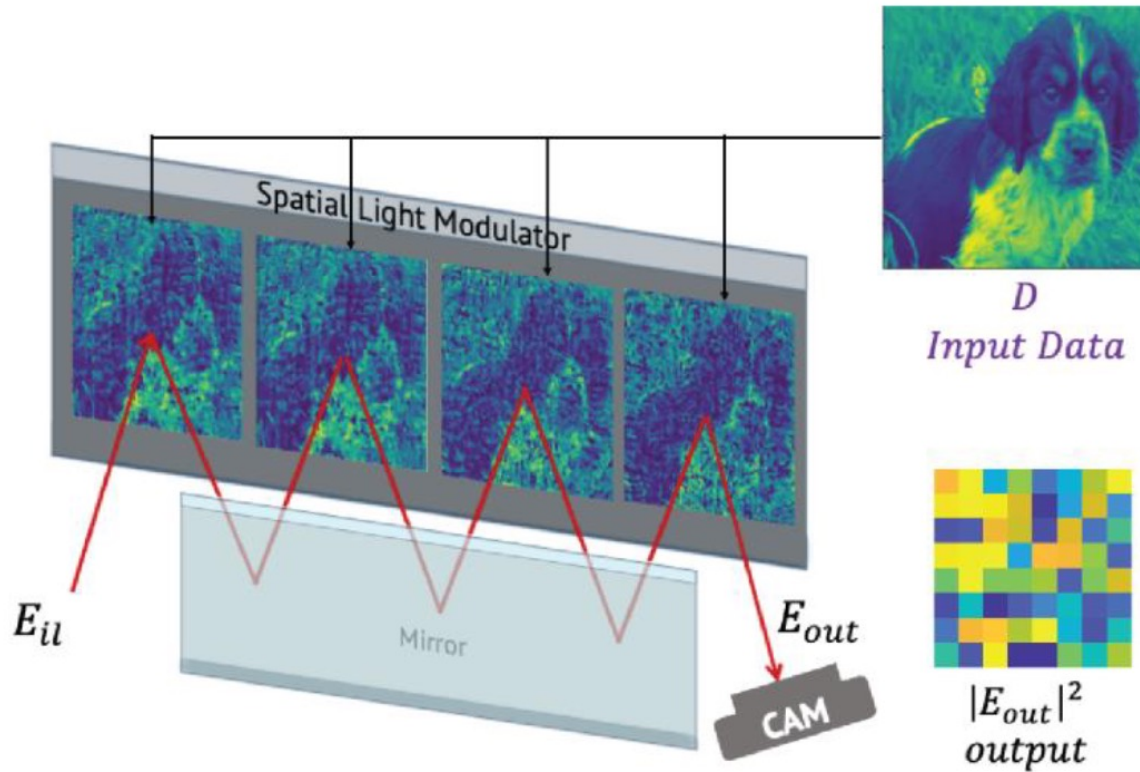
$$Y = A^N X$$

Data goes to A

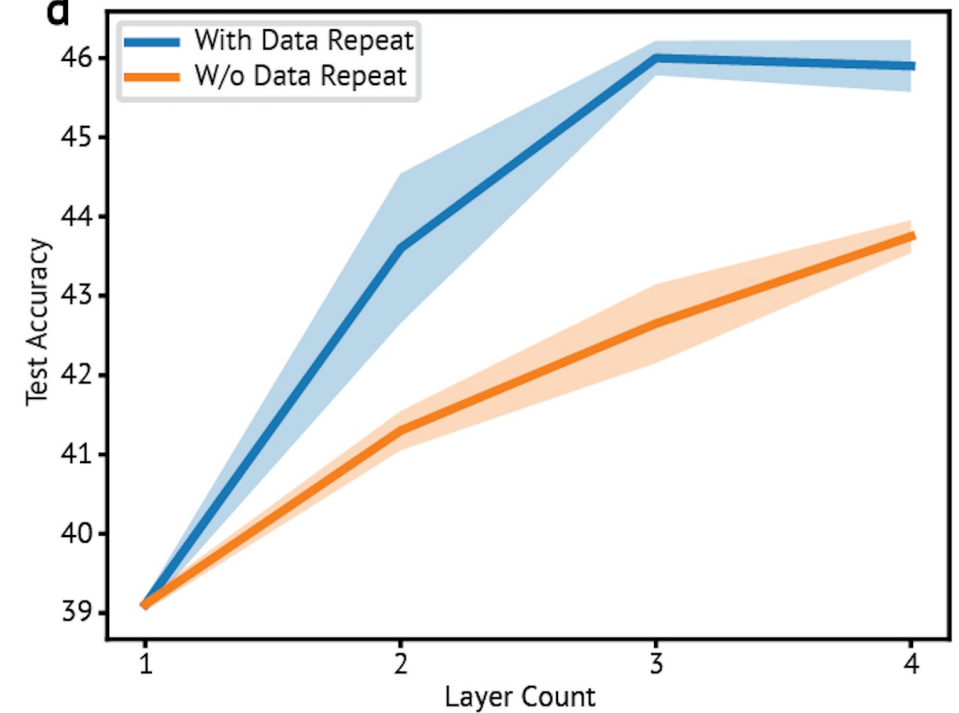
Multiple Scaterrings in Free Space

$$Y = A^N X$$

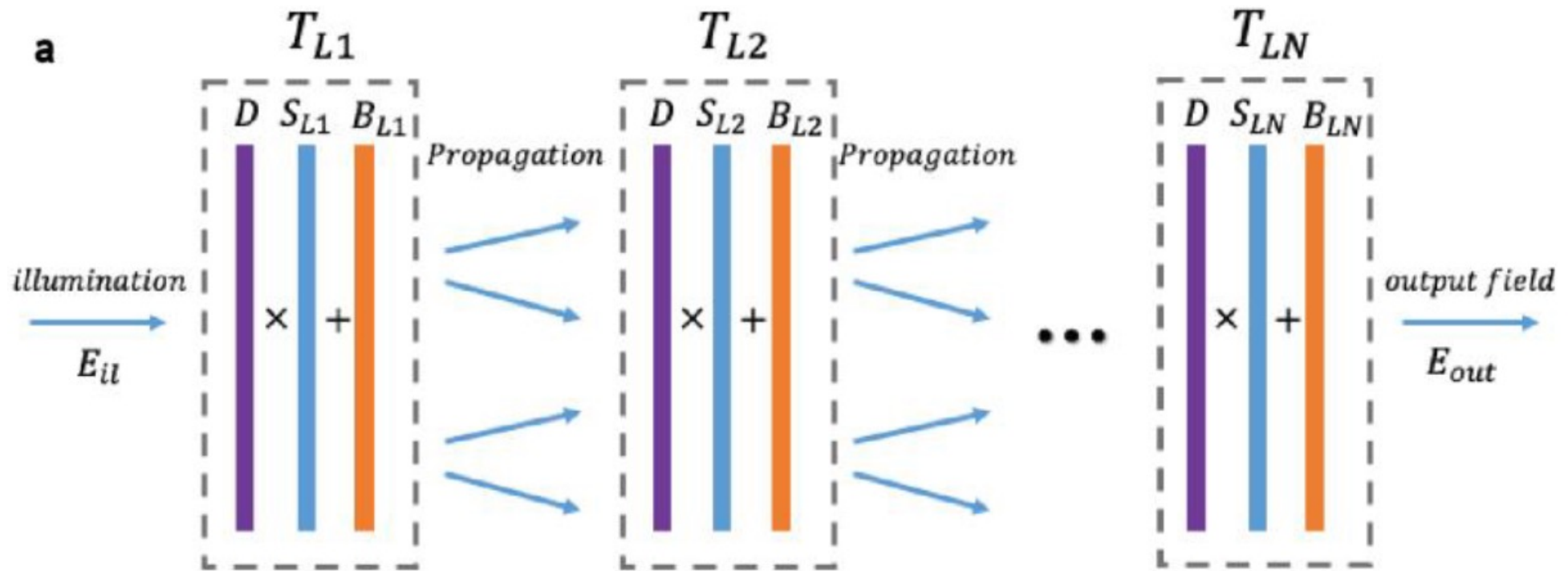
b



d



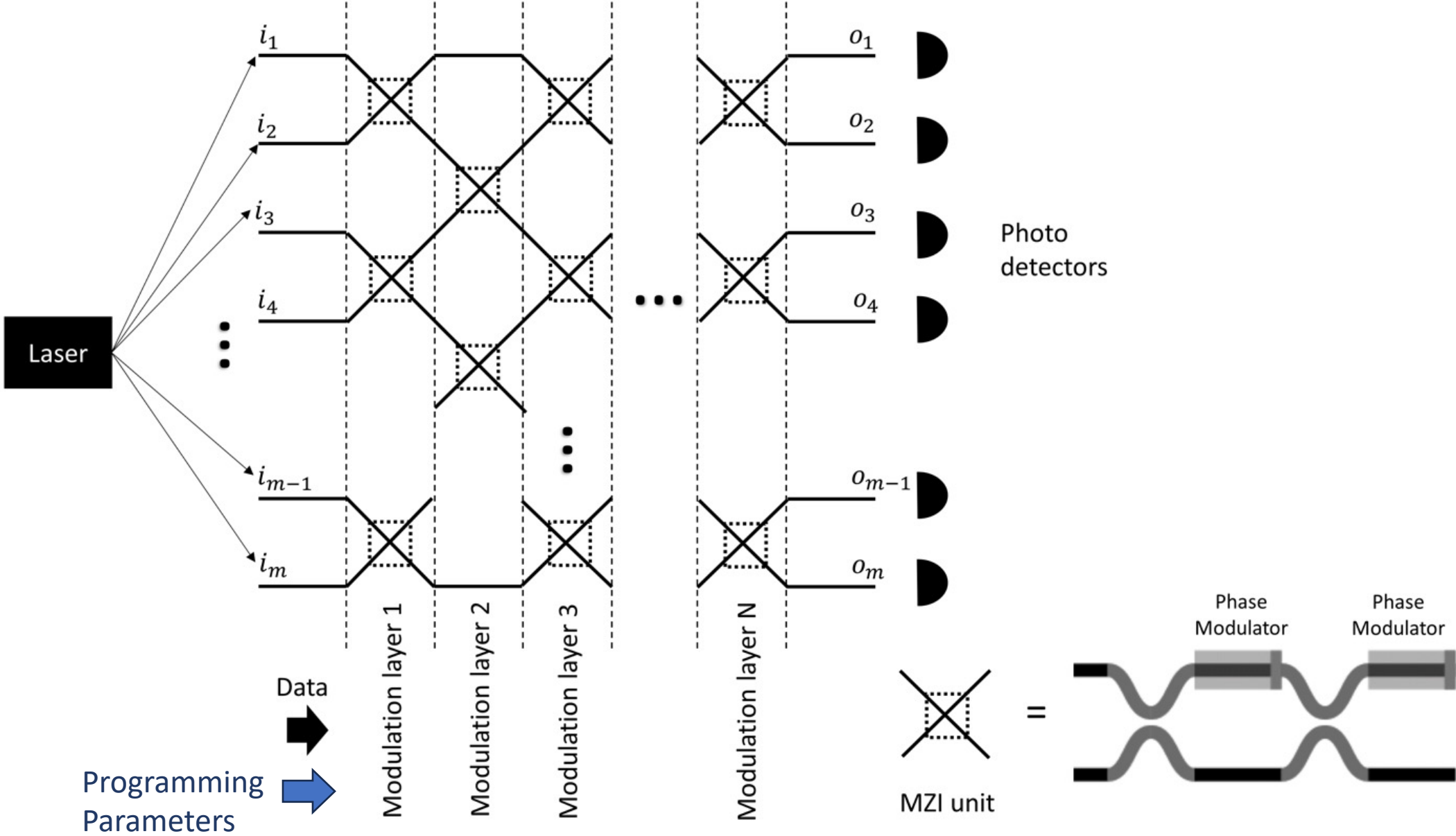
Encoding Data with Programming Parameters



$$E_{out} = \overbrace{HT_{LN}(D)}^{N^{th} \text{ layer}} \dots \overbrace{HT_{L2}(D)}^{2^{nd} \text{ layer}} \overbrace{HT_{L1}(D)}^{1^{st} \text{ layer}} E_{il}$$

$$T_{Ln} = e^{j(D \odot S_{Ln} + B_{Ln})}$$

Multiple Linear Transforms in Integrated Domain



Thank you