

Solving the corner-turning problem for large interferometers

Andrew Lutomirski October 8, 2009 SwFRT09

with: Max Tegmark, Nevada Sanchez, Leo Stein, and Matias Zaldarriaga

$\psi \rightarrow \text{FFT} \rightarrow$

$\psi \rightarrow \text{FFT} \rightarrow$

$\psi \rightarrow \text{FFT} \rightarrow$

$\psi \rightarrow \text{FFT} \rightarrow$



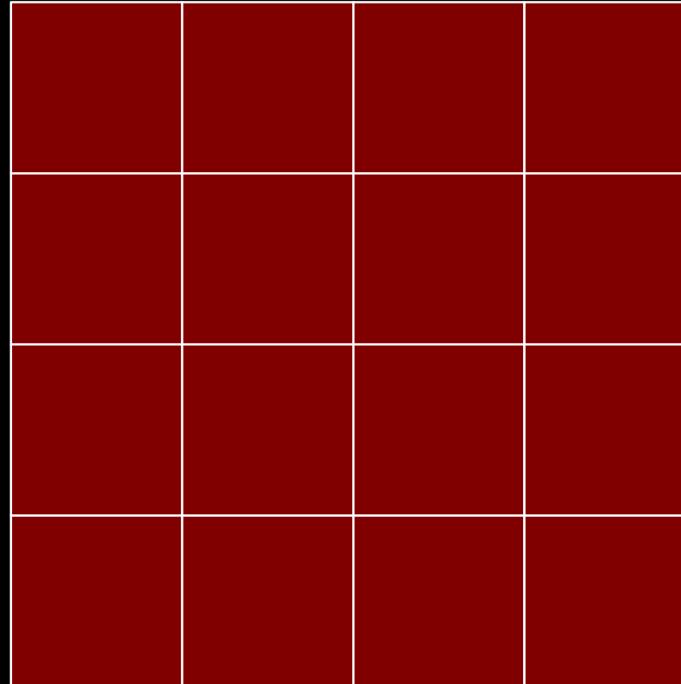
Correlators

$\psi \rightarrow \text{FFT} \rightarrow$

$\psi \rightarrow \text{FFT} \rightarrow$

$\psi \rightarrow \text{FFT} \rightarrow$

$\psi \rightarrow \text{FFT} \rightarrow$



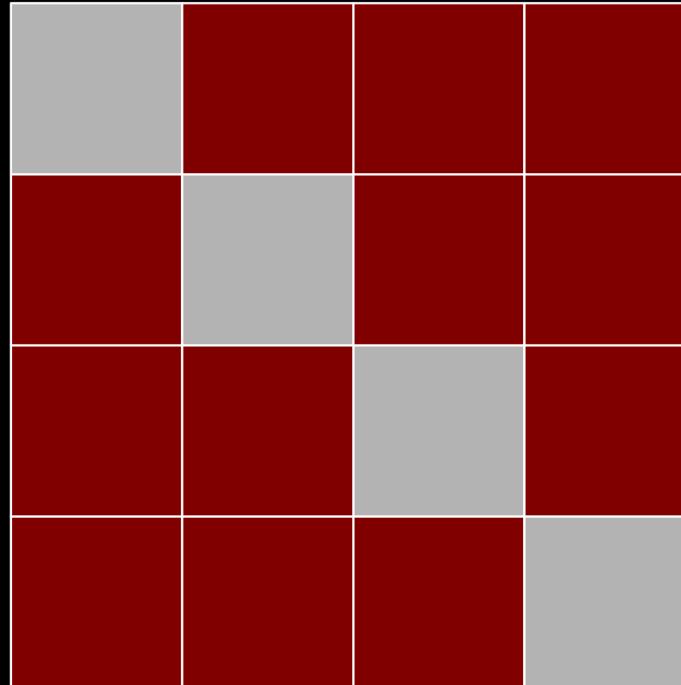
Correlators

$\psi \rightarrow \text{FFT} \rightarrow$

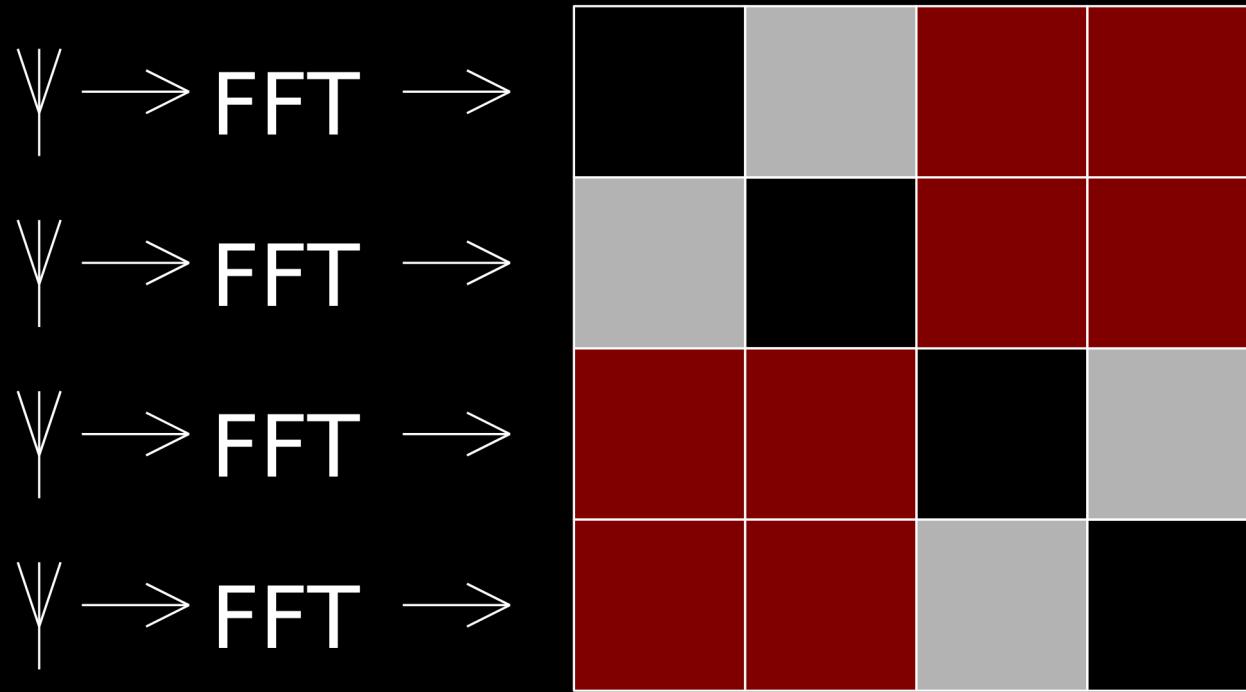
$\psi \rightarrow \text{FFT} \rightarrow$

$\psi \rightarrow \text{FFT} \rightarrow$

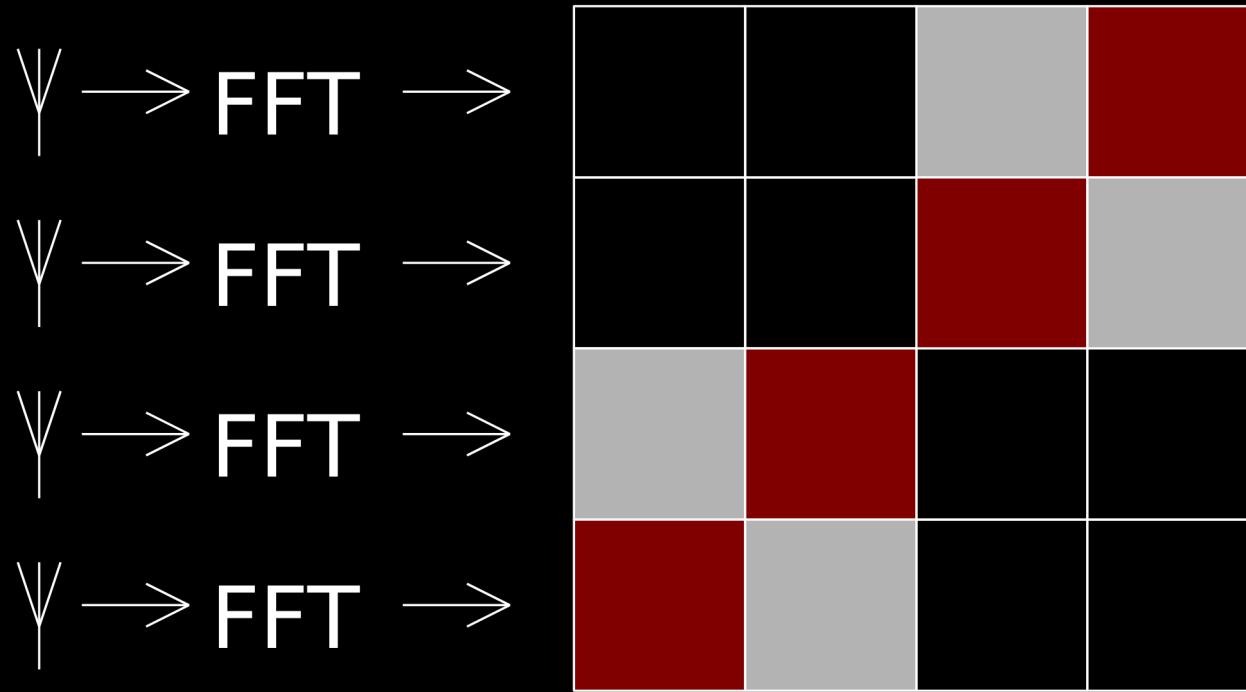
$\psi \rightarrow \text{FFT} \rightarrow$



Correlators



Correlators



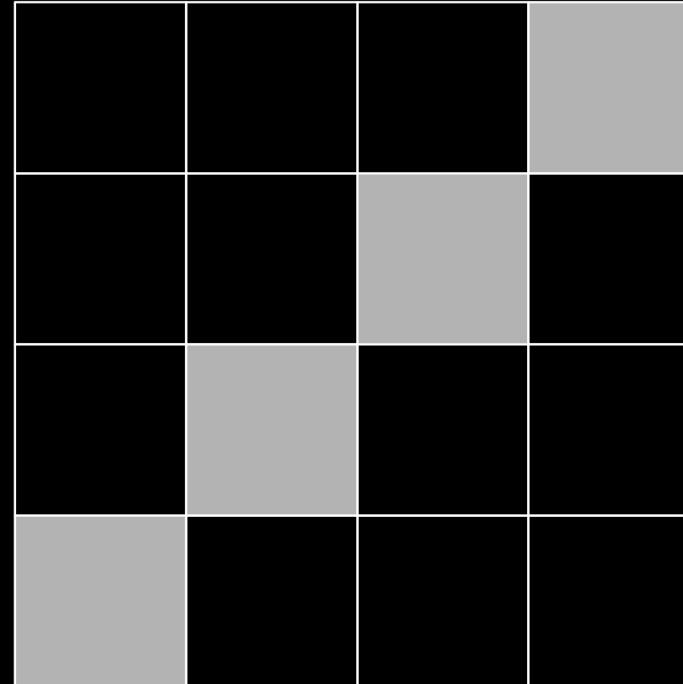
Correlators

$\psi \rightarrow \text{FFT} \rightarrow$

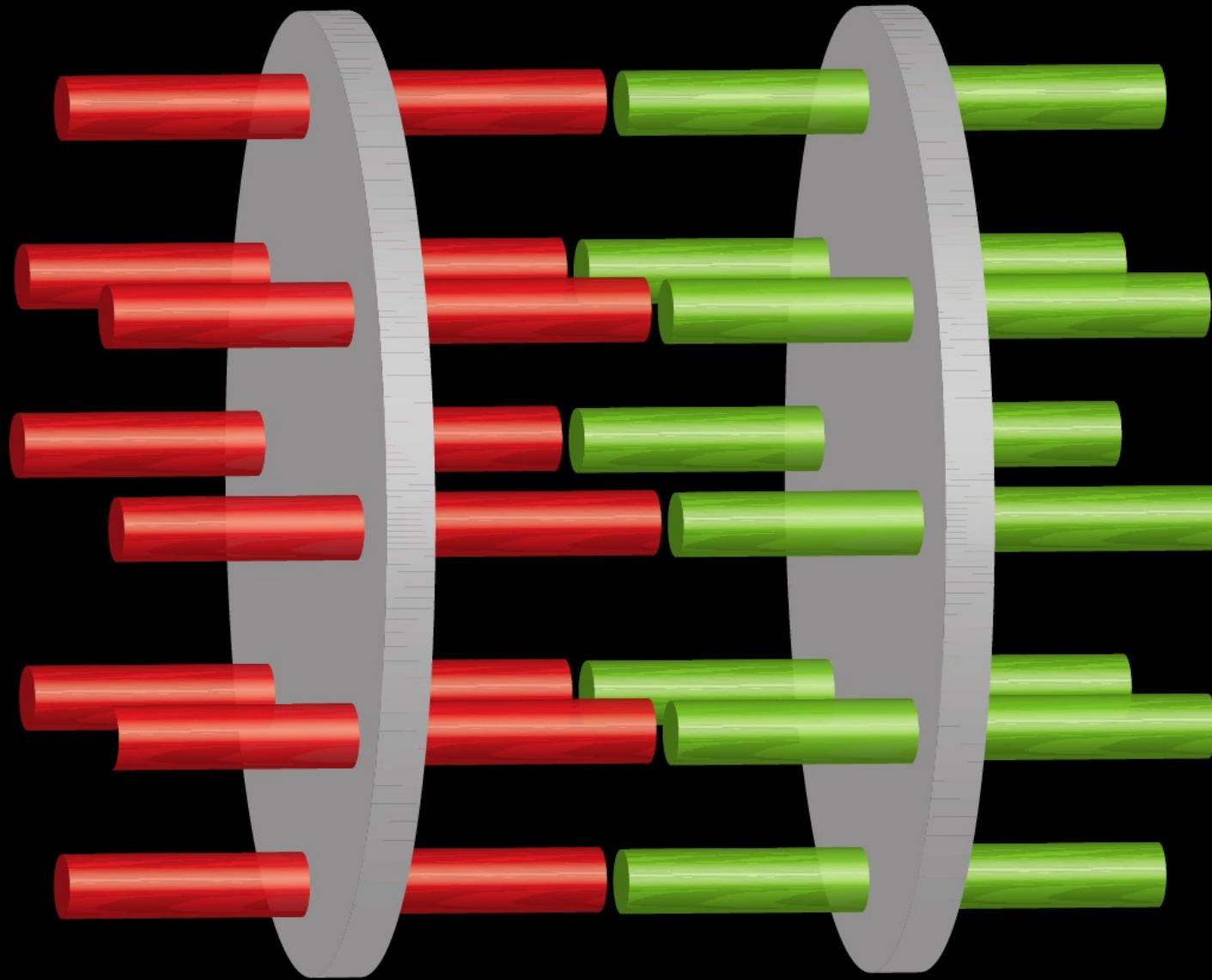
$\psi \rightarrow \text{FFT} \rightarrow$

$\psi \rightarrow \text{FFT} \rightarrow$

$\psi \rightarrow \text{FFT} \rightarrow$



Correlators



$$j \equiv i + c \pmod{N}$$

$$j = i \operatorname{xor} c$$

