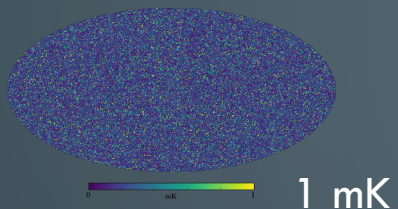# deep21: A DEEP NETWORK FOR DENOISING 21 CM OBSERVATIONS

T. Lucas Makinen (*Sorbonne / Princeton*)
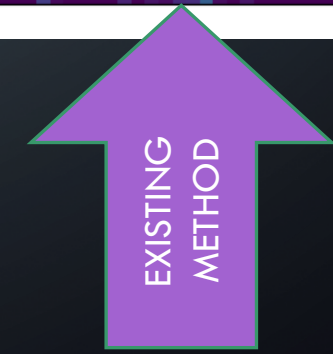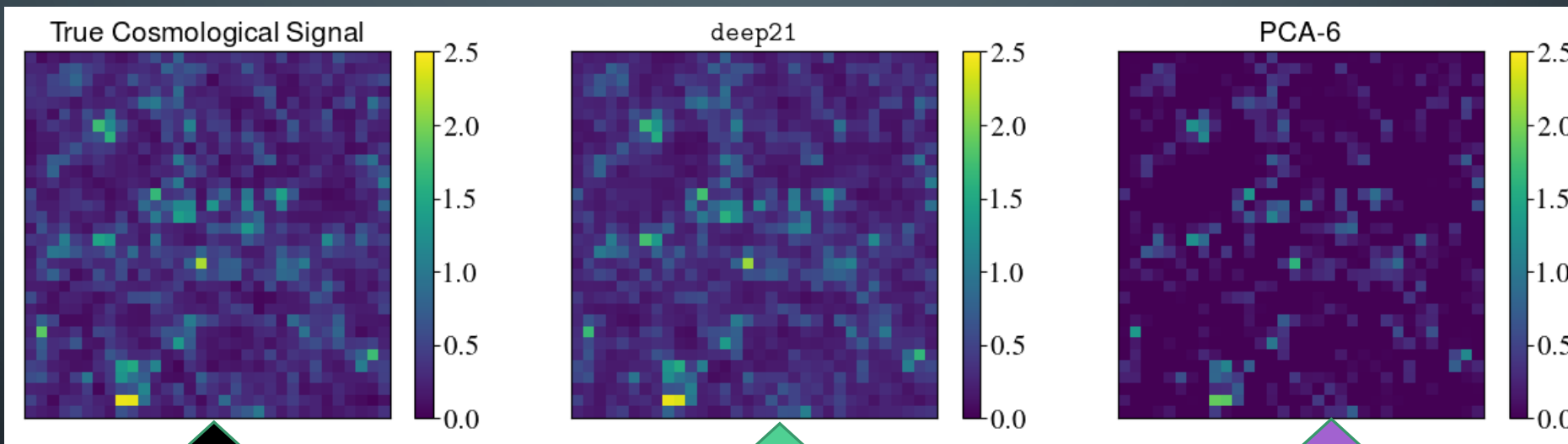
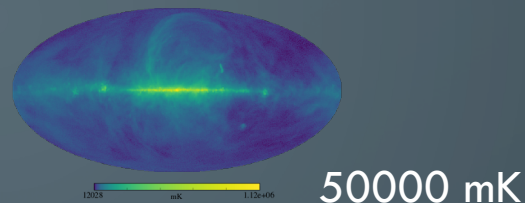Advised by: Professors P. Melchior & D. Spergel (*Princeton*) & Dr. S. Ho (*Flatiron Institute*)

What we want : 1 mK

What's in the way : 50000 mK

How to separate ?

True Cosmological Signal — TRUTH

deep21 — NETWORK PREDICTION

PCA-6 — EXISTING METHOD

[mK]