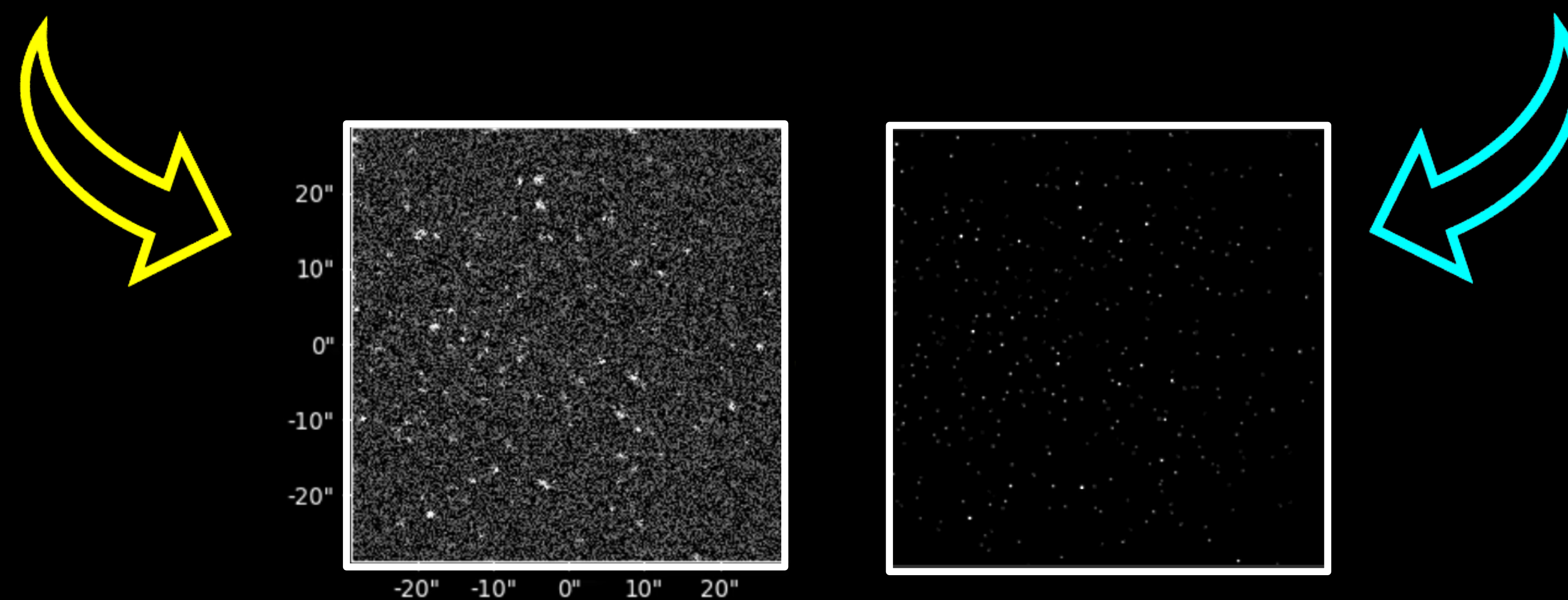


Software Adaptive Optics

Wide-field atmospheric turbulence correction using artificial intelligence

Spencer Bialek and Emmanuel Bertin

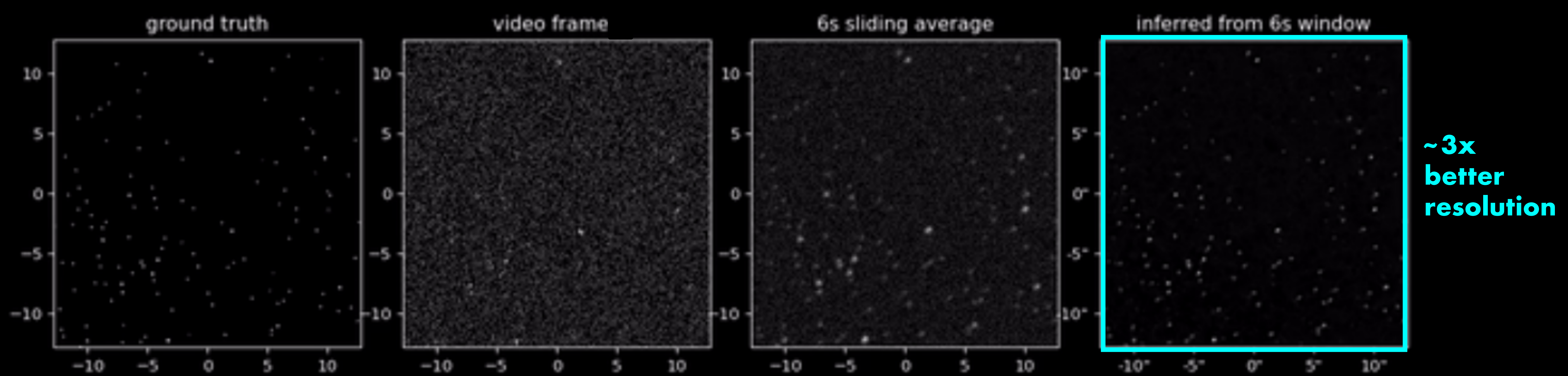
We created simulated short-exposure observations **with noise and atmospheric turbulence** and **without**



and taught a machine to **predict the turbulence- and noise-free image** from a short **video sequence of realistic turbulent images**

PRELIMINARY RESULTS

on simulated observations:



on **real observations** of the globular cluster **M92** using the 1-metre **C2PU** telescope at Observatoire de la Cote d'Azur:

