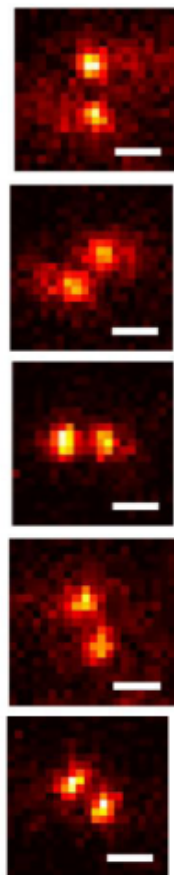


Tracking mRNA in live yeast cells in 3D

Michael Thompson, Jason Casolari, Majid Badieirostami, Patrick O. Brown, W. E. Moerner



3D obtained using a Double-Helix Point Spread Function

15 ms time resolution

25 nm x-y, 50 nm z precision

New techniques to detect both confinement and directed motion

