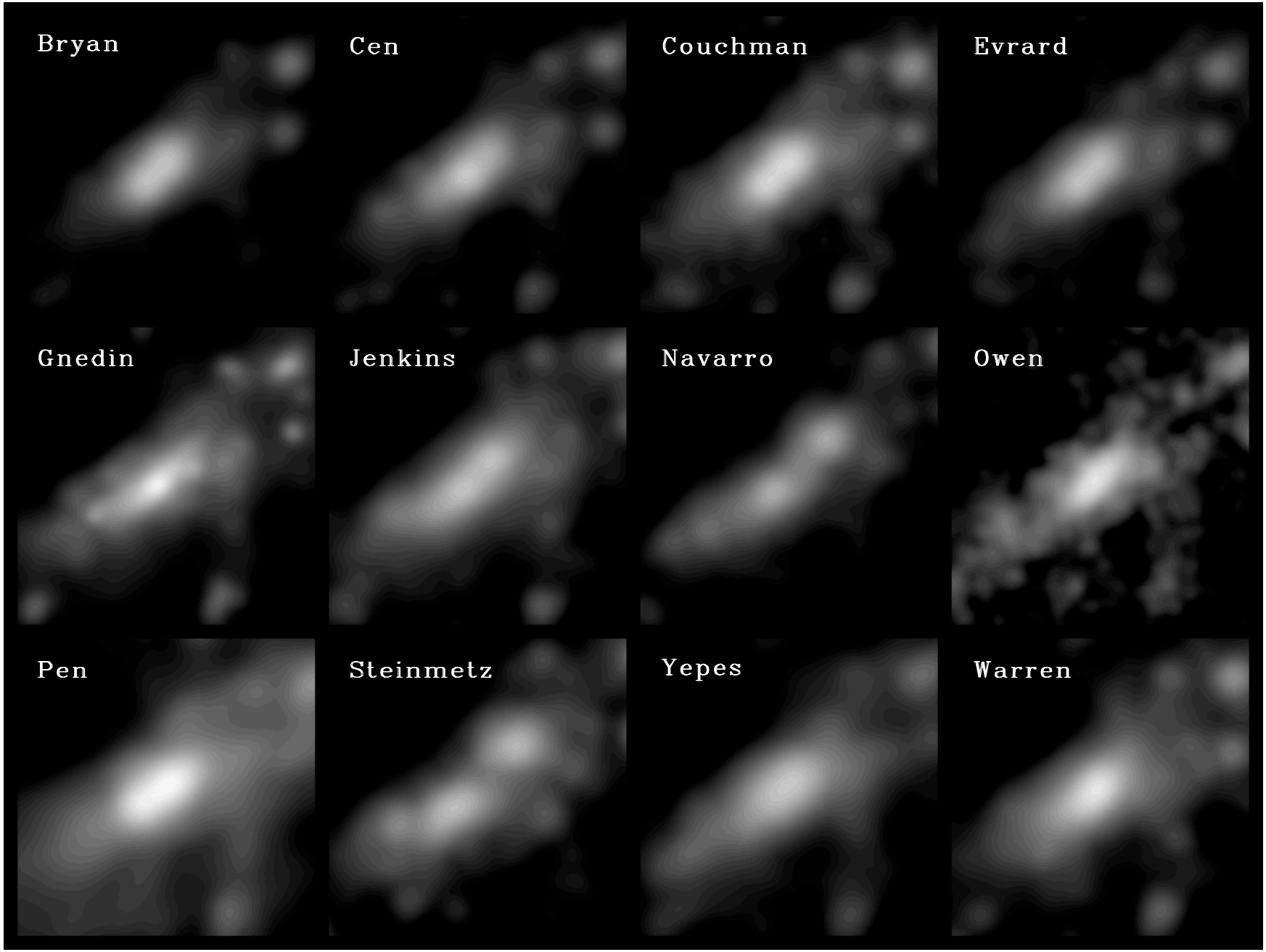Dark Matter z=0.5