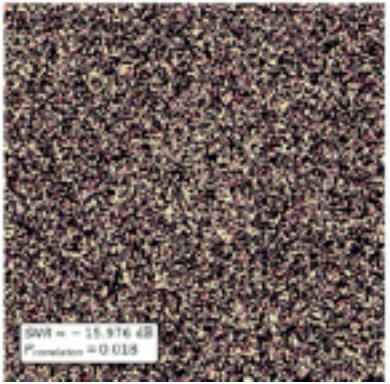
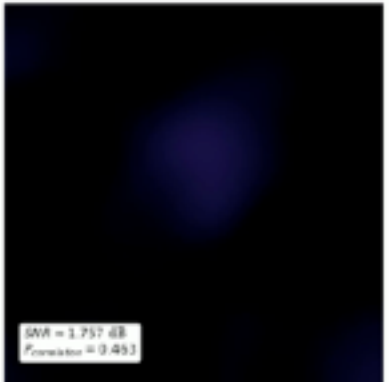
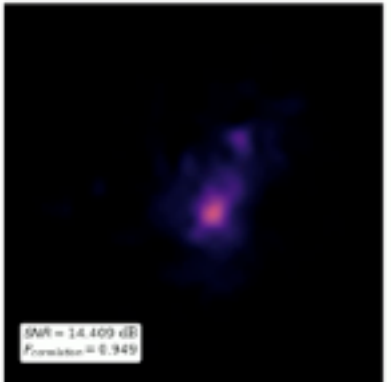
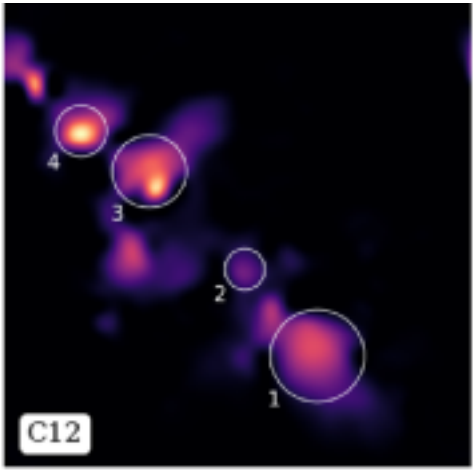
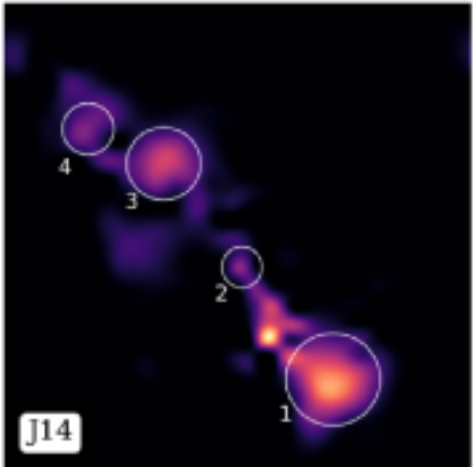

Galaxy Number Density: 10 arcmin$^{-2}$
Current Data

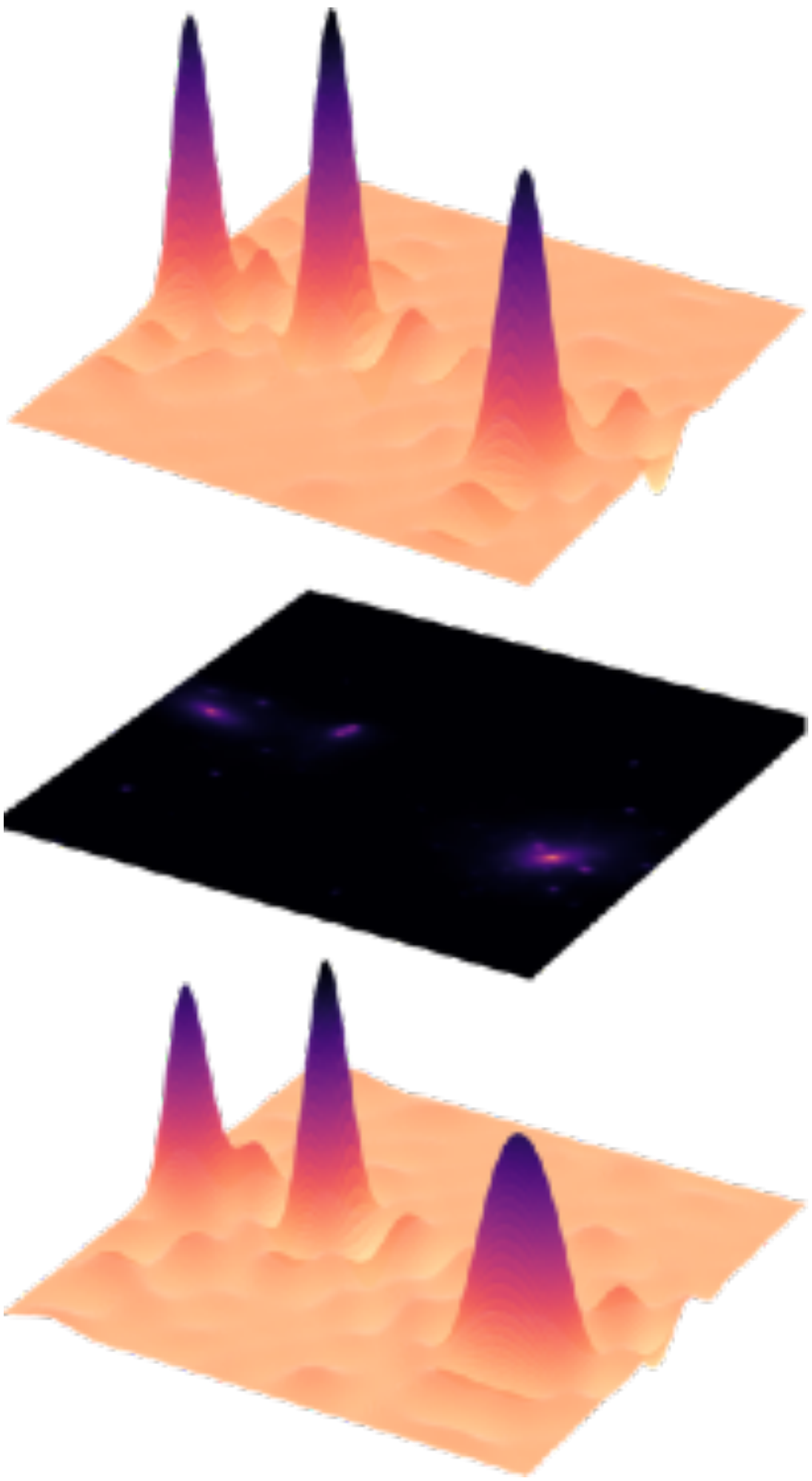



4
3
2
1
C12


4
3
2
1
J14



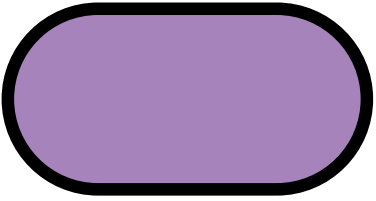
Department of Space & Climate Physics

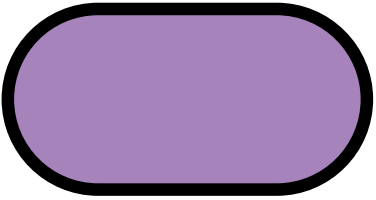
*Super-resolution MAP estimation versus Kaiser-Squires for various settings* [1]

# Current

# Inverse

# Ours





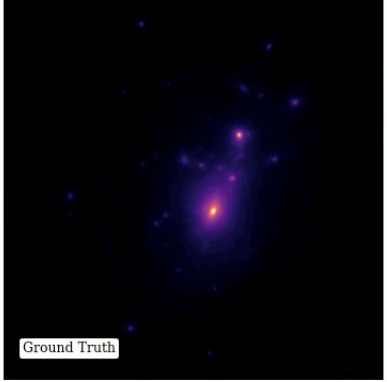
# C12

# J14

# Truth

*Bayesian sampling versus optimisation* [2,3]

# *Application to Abel 520 merging cluster observational data* [1]

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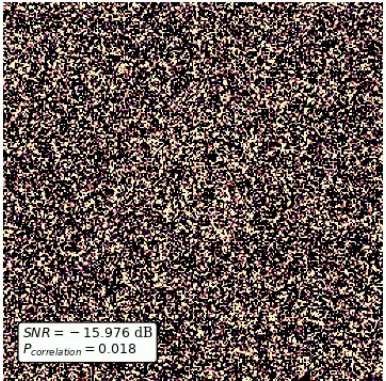
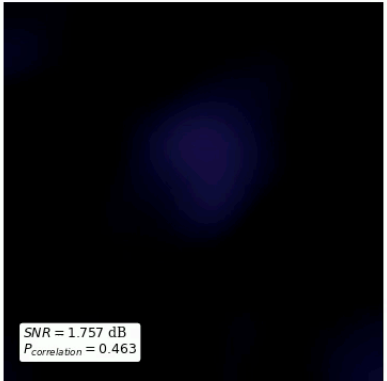
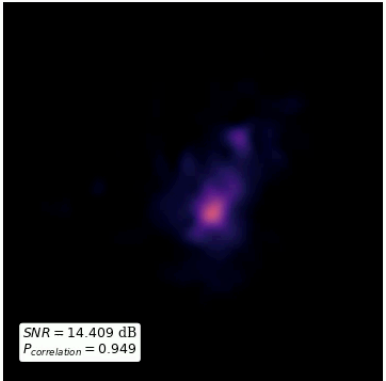
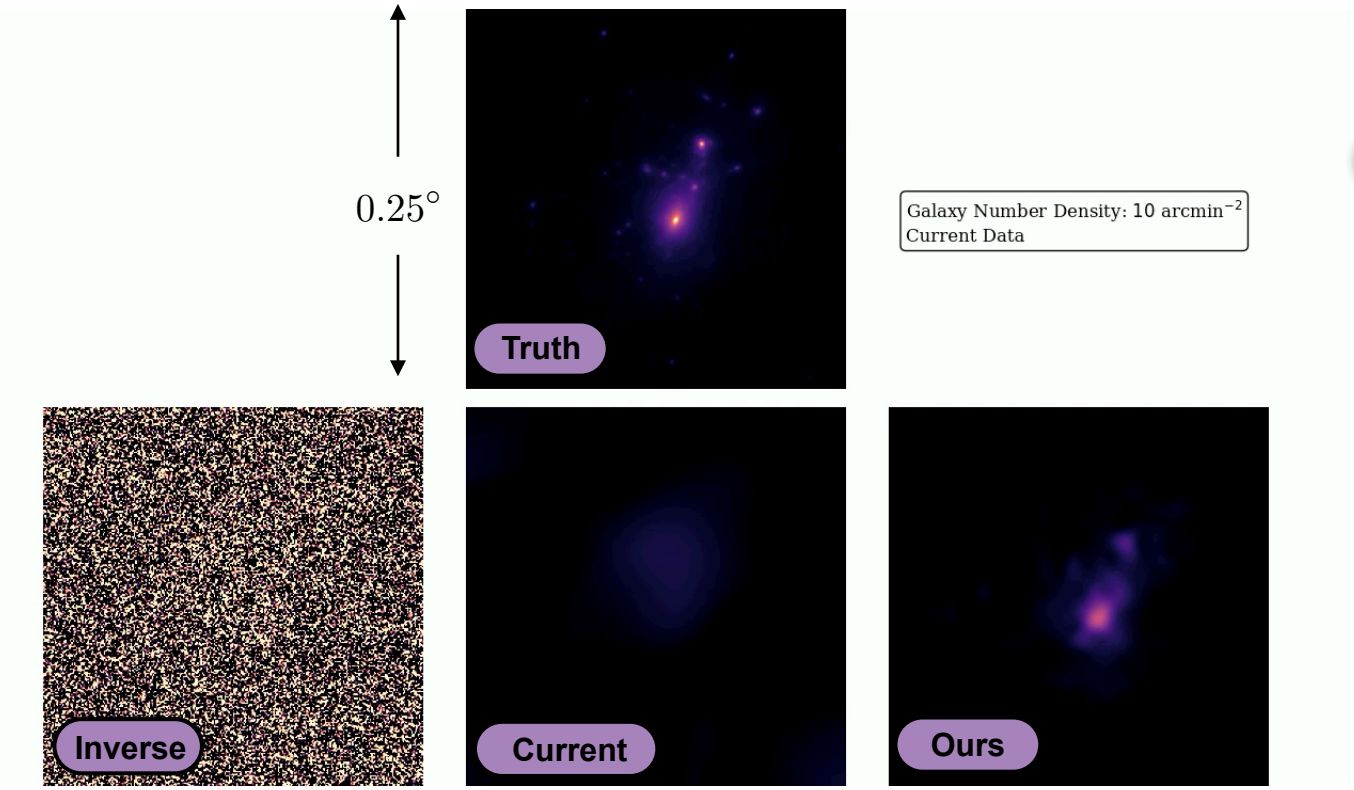
Current Data



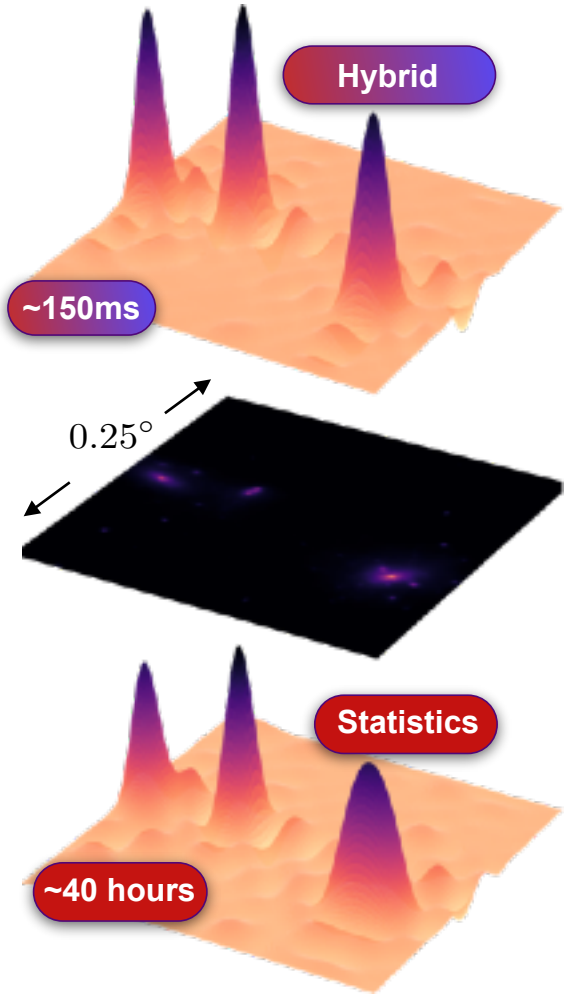



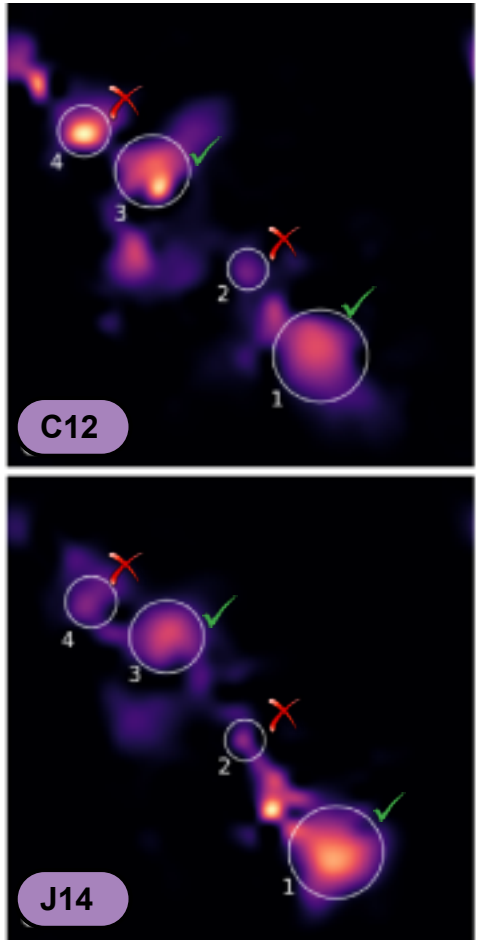
# Planar Weak lensing




*Super-resolution MAP estimation versus Kaiser-Squires for various settings* [1]

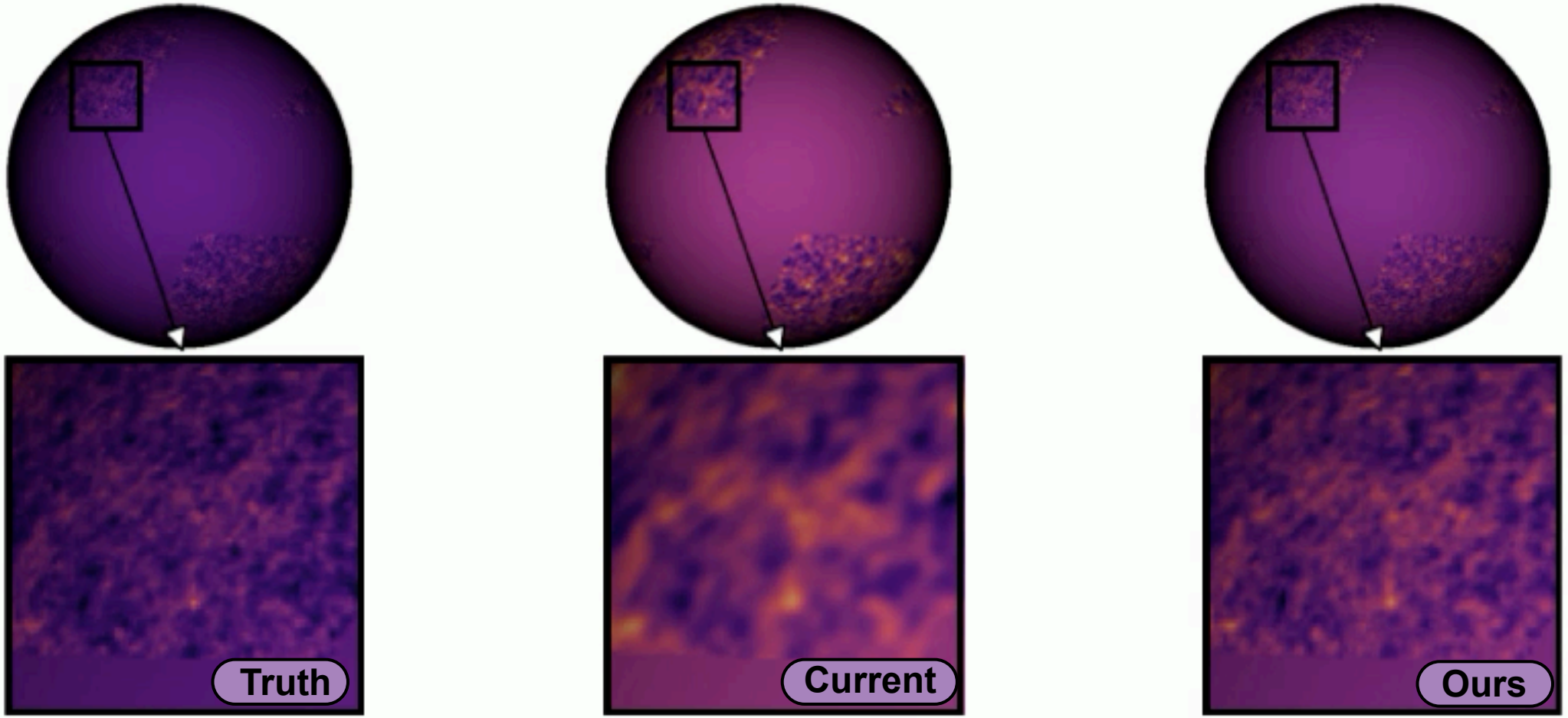



*Bayesian sampling versus optimisation* [2,3]




*Application to Abel 520 merging cluster observational data* [1]

# Spherical Weak Lensing




Simulated dark matter reconstruction on the celestial sphere. Note the fine detail recovered by our estimator which is missed by the current method [4]