

A Forecast of the Potential of Weak Lensing Magnification at LSST

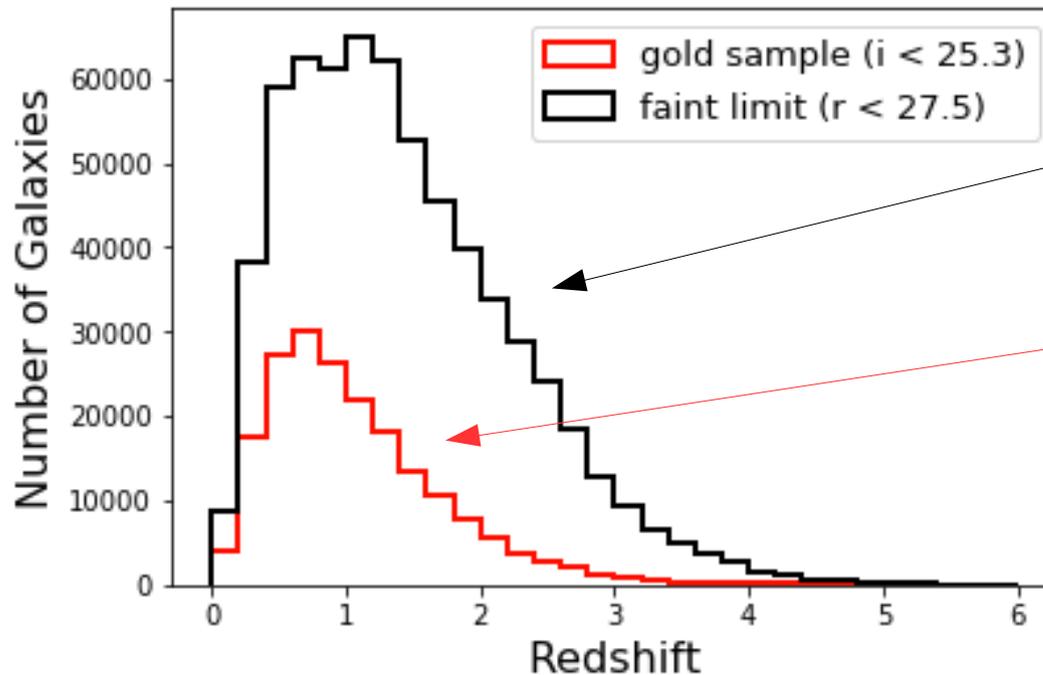
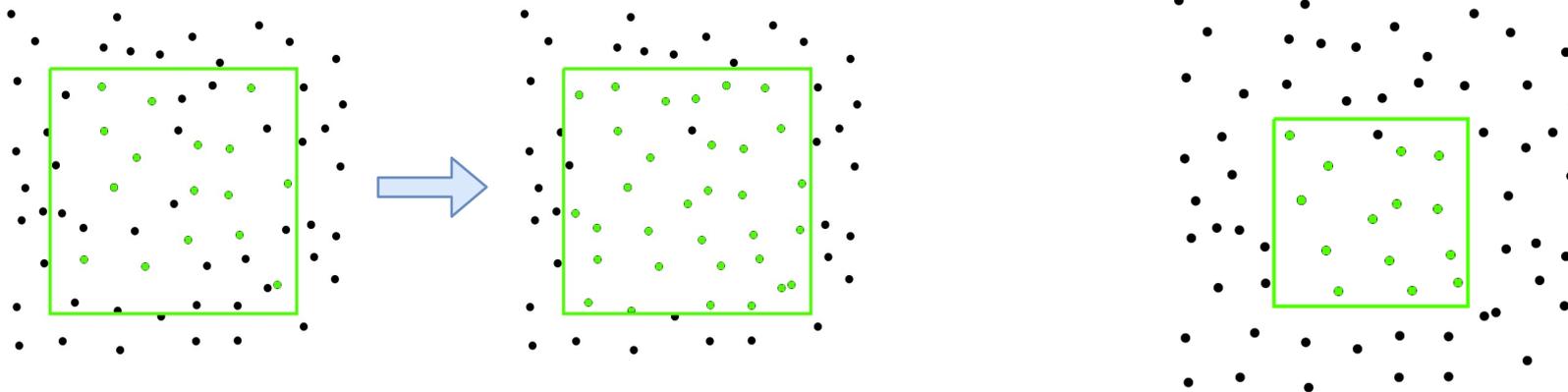
Constance Mahony

PhD student at UCL

Supervisors: Benjamin Joachimi and Andreas Korn

constance.mahony.16@ucl.ac.uk

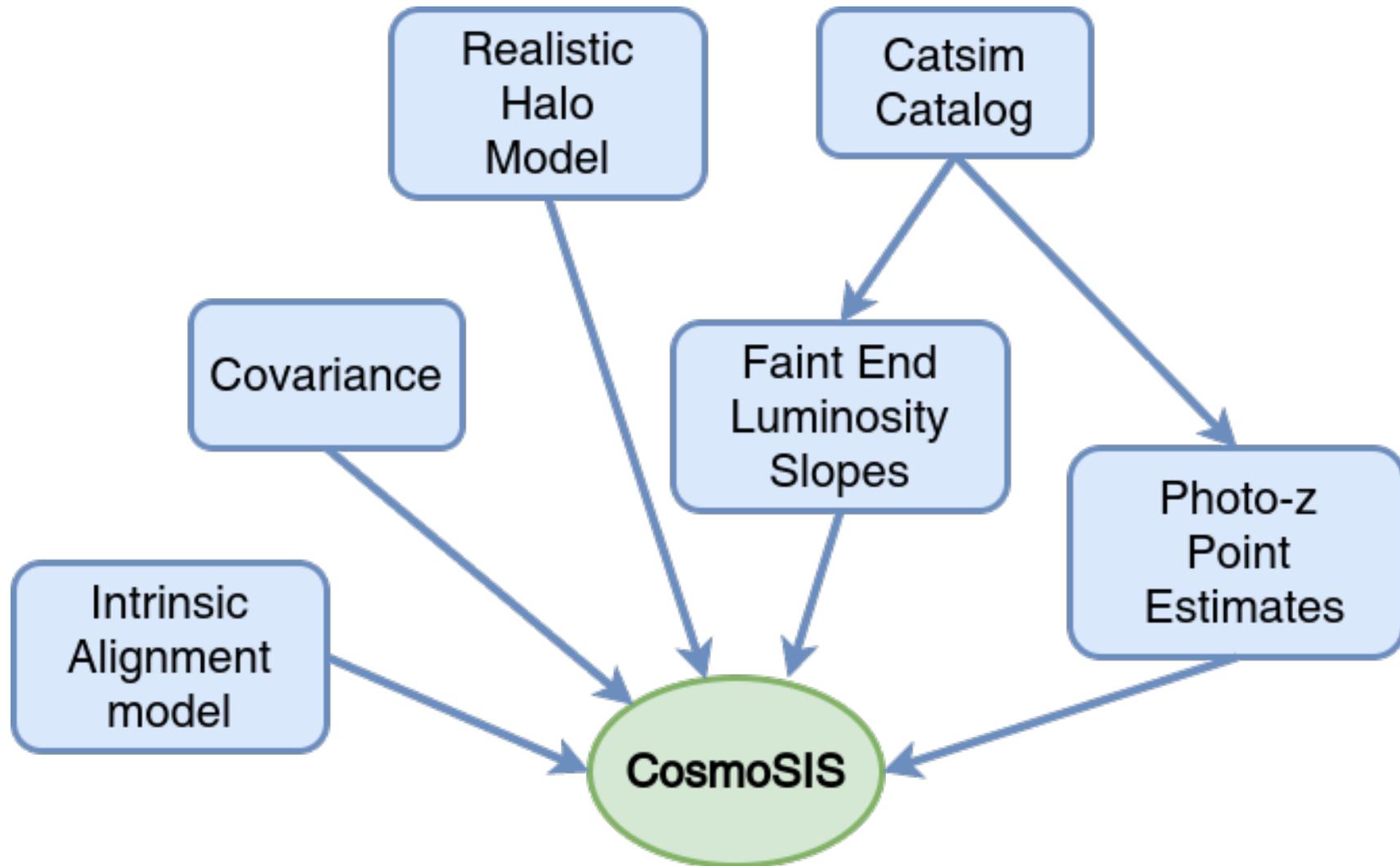
Flux Magnification



Magnification

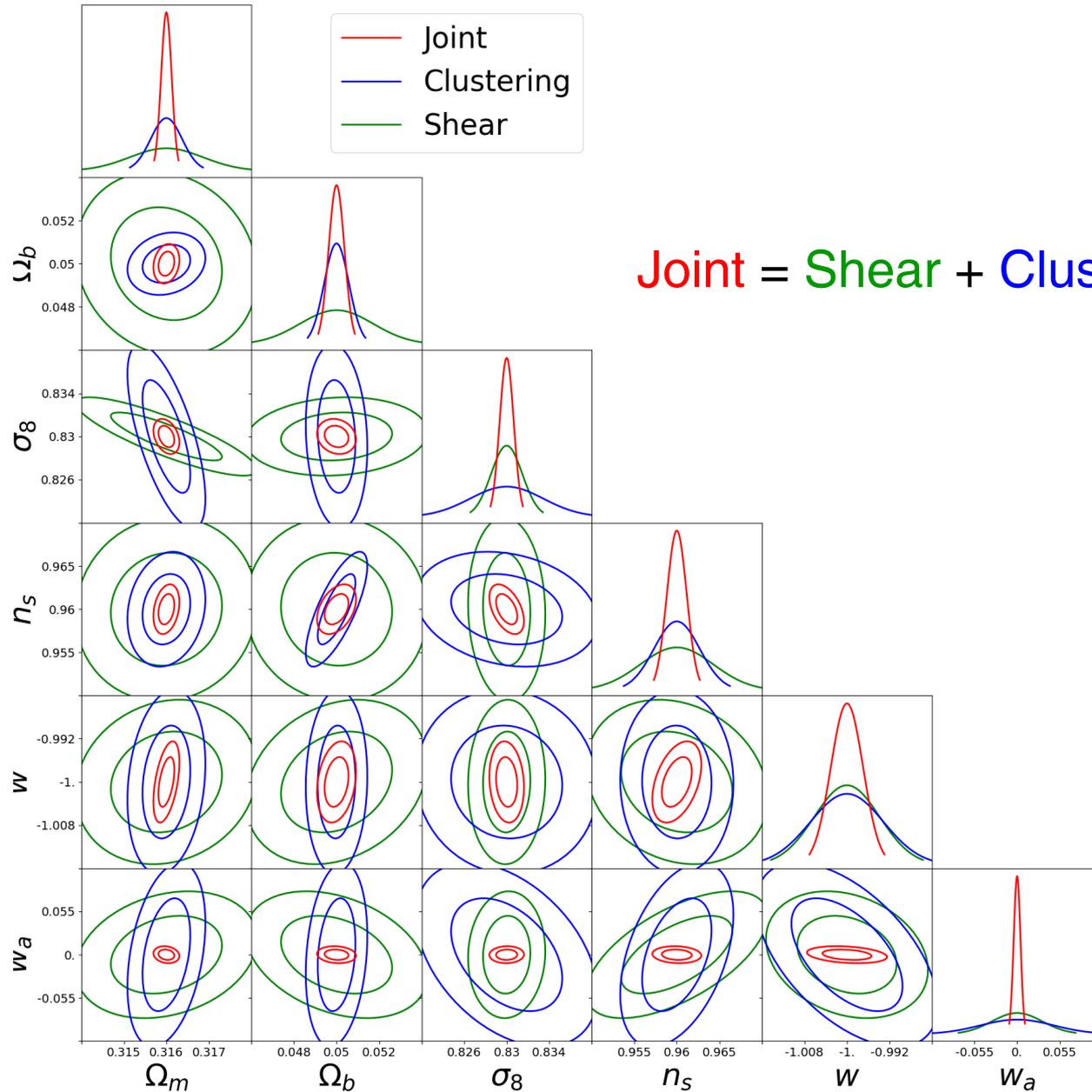
Shear

x3 increase
in usable
sample size



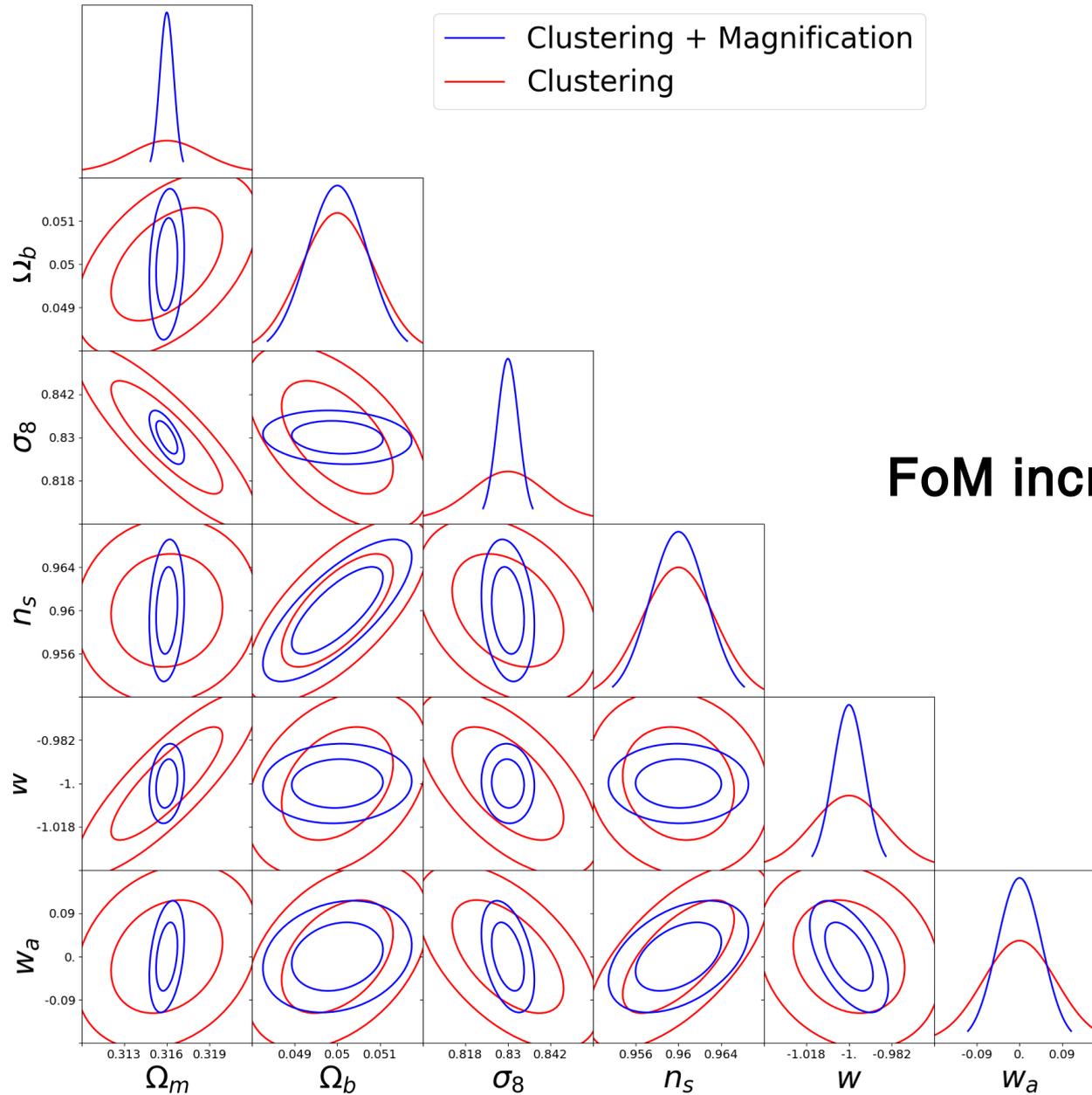
Shear + Clustering + Joint

Preliminary!



Joint = Shear + Clustering + Cross-Correlation

Clustering + Magnification



Preliminary!

$$FoM = \det([F^{-1}]_q)^{\frac{1}{n_q}}$$

FoM increased by a factor of 2.58