

## MOTIVATION

Study how the visual morphology of local galaxies changes if they were at a higher redshift

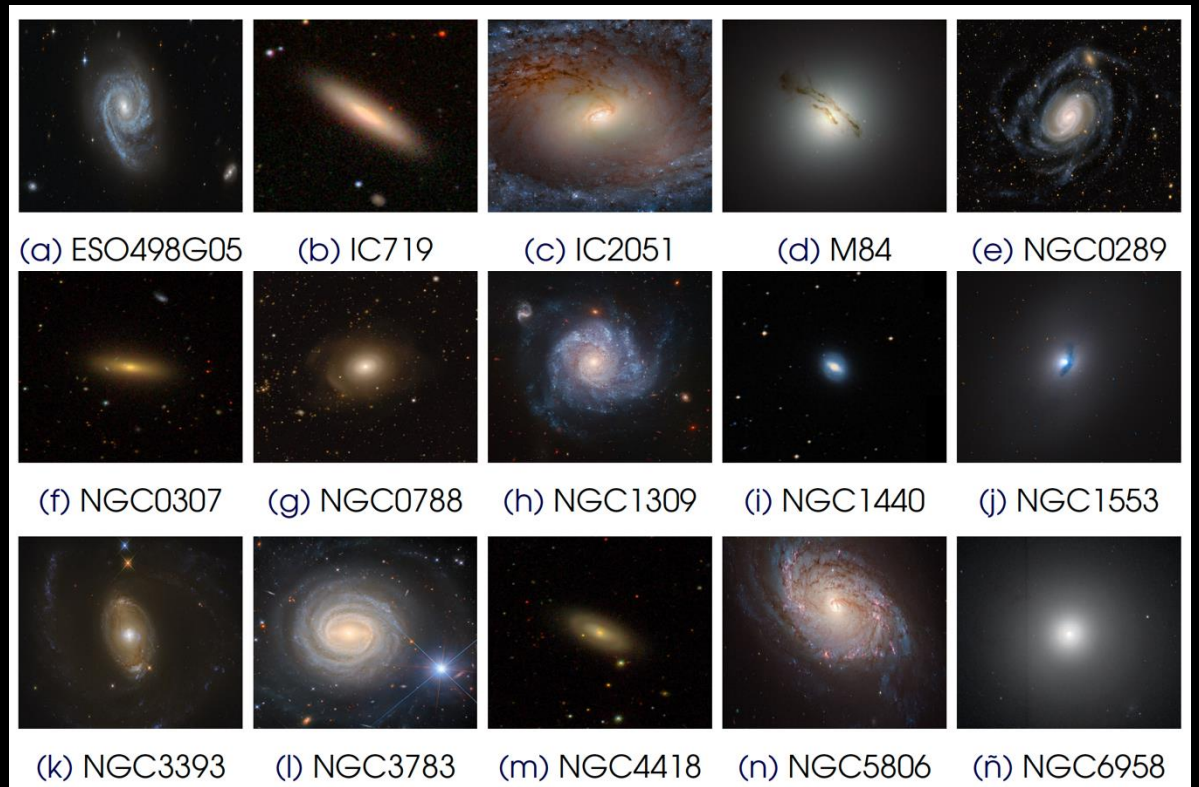
## METHODOLOGY

Sérsic functions were fitted to synthetic images of galaxies centers computed from **MUSE** data and using the technique presented in Papaderos et al. 2023.

**GOAL:** to obtain the variation vs  $z$  of their structural parameters (the Sérsic Index and Effective Radius) by using GALFIT

## SAMPLE

15 galaxies computed in JWST, Euclid and SDSS filters. 109  $z$  images per filter ( $z=0.0$  to  $z=5.40$ ). In total **45000** images analyzed individually with a pipeline made by scratch

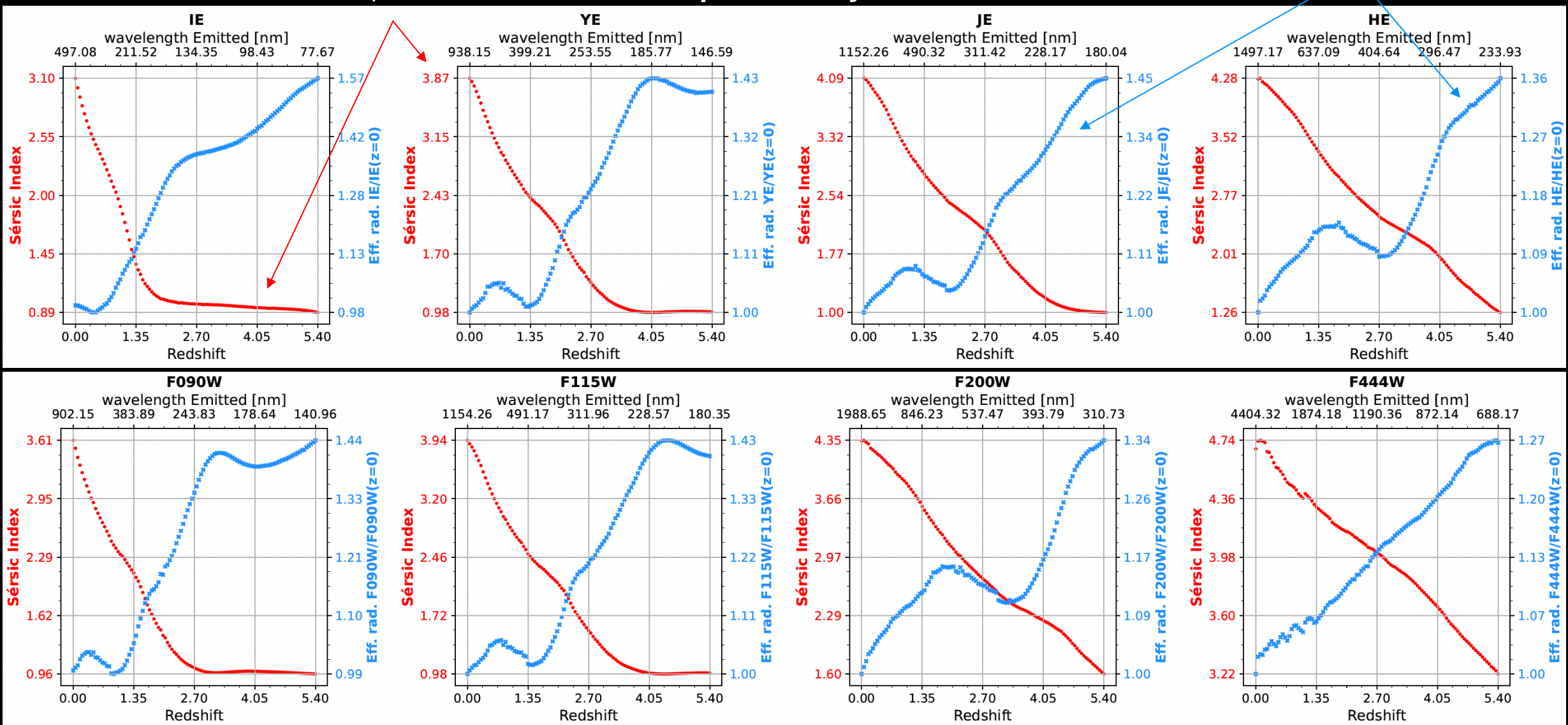


## Euclid Filters

Sérsic index:  
= 1 : Disk like  
= 4 : Spheroid like

## SOME RESULTS: NGC4418 Spiral Galaxy

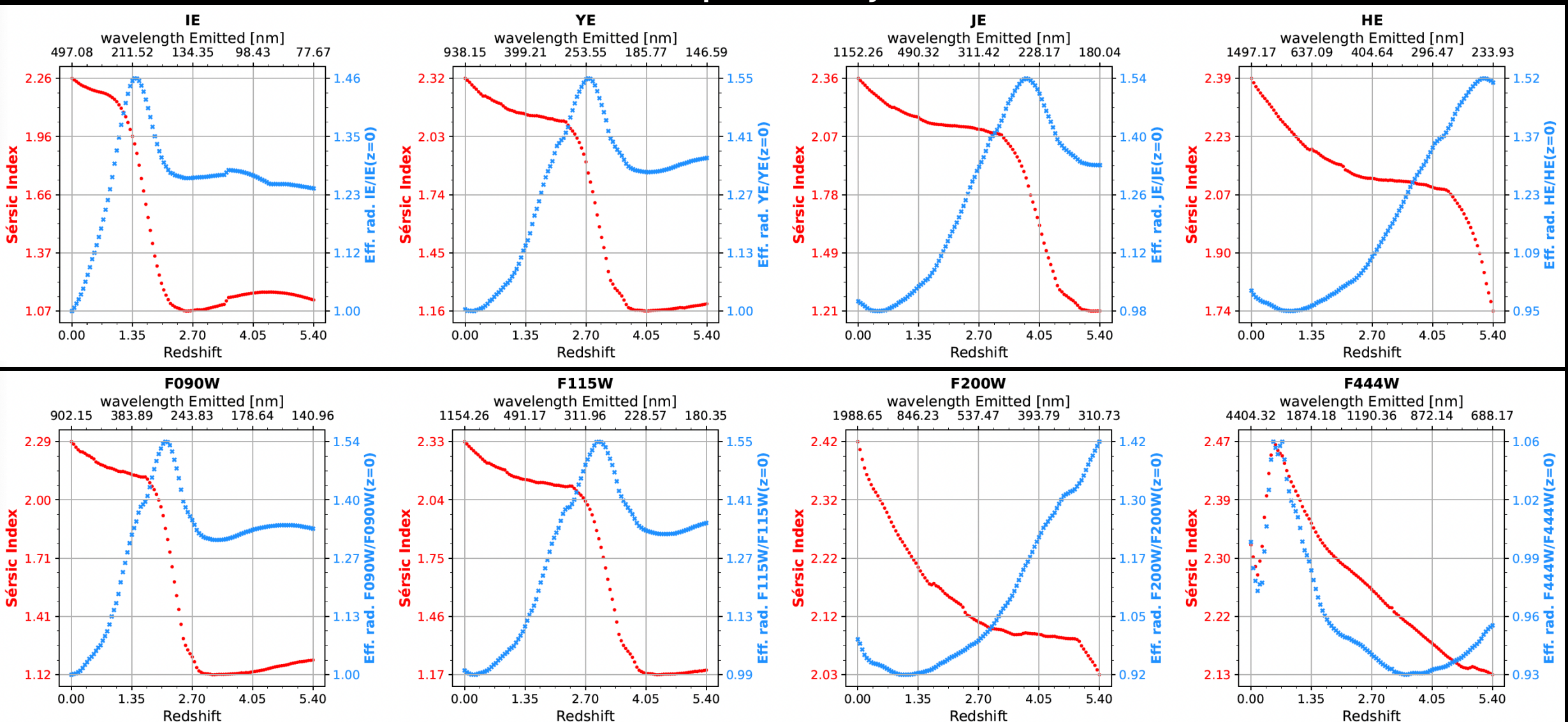
Effective radius ratio  
between  $z=0$  value



## JWST Filters

## Euclid Filters

## SOME RESULTS: M84 Elliptical Galaxy



## JWST Filters