

# PROFILE

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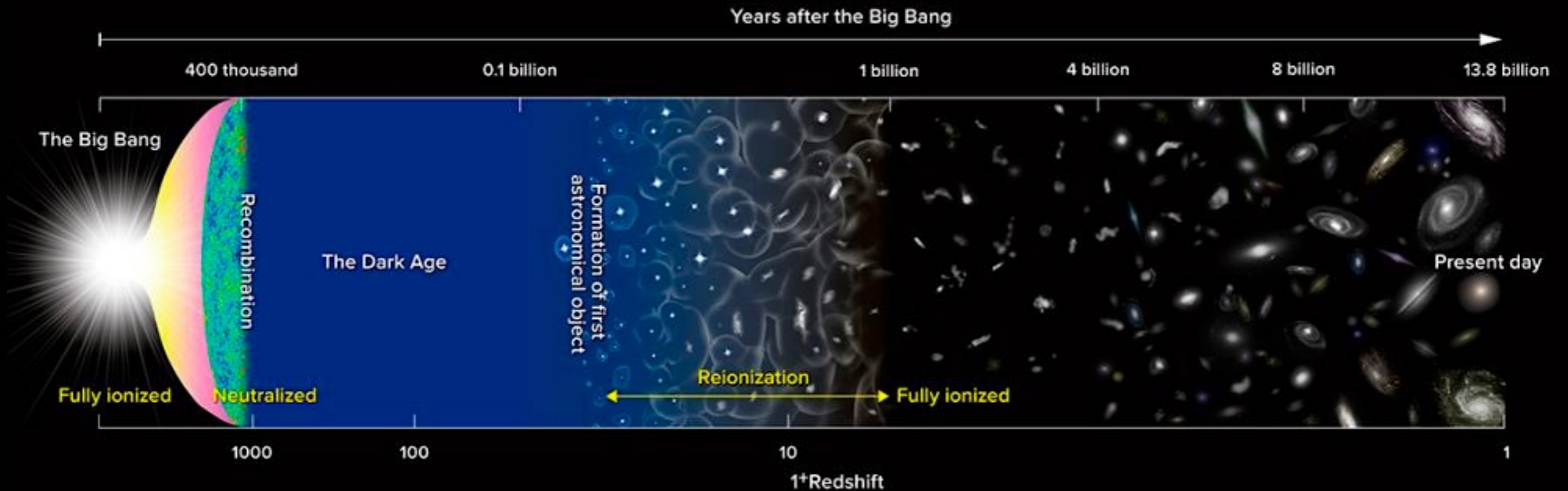
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## “ Deep Optical & Near - IR Photometric Selections of High - z Objects ”

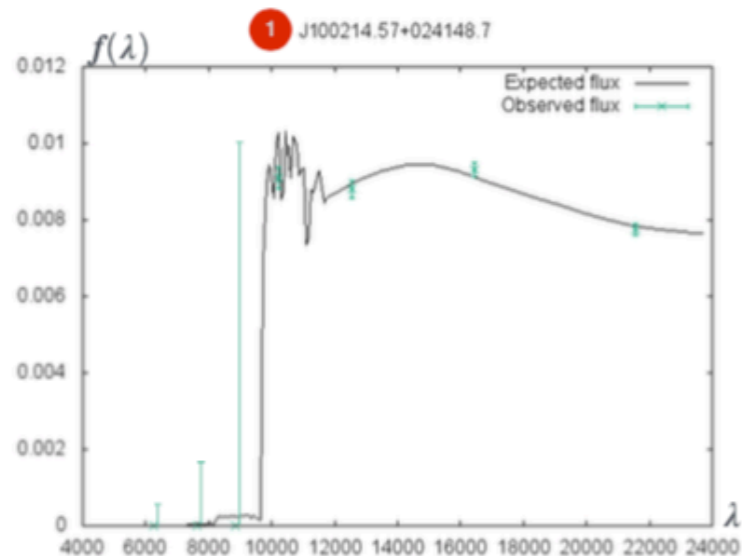
### Major cosmic transition

- Epoch of Recombination  
(Cosmic Microwave Background:CMB)
- **Epoch of Reionization**  
(high redshift objects)

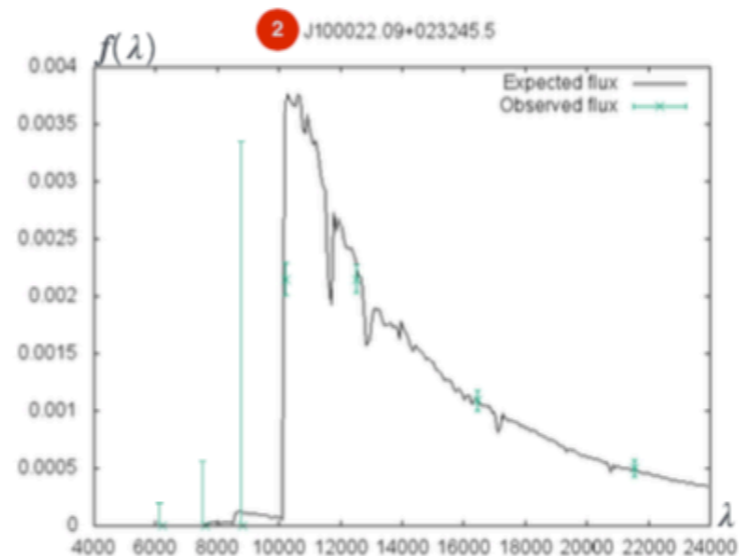
# Optical-dropout candidates



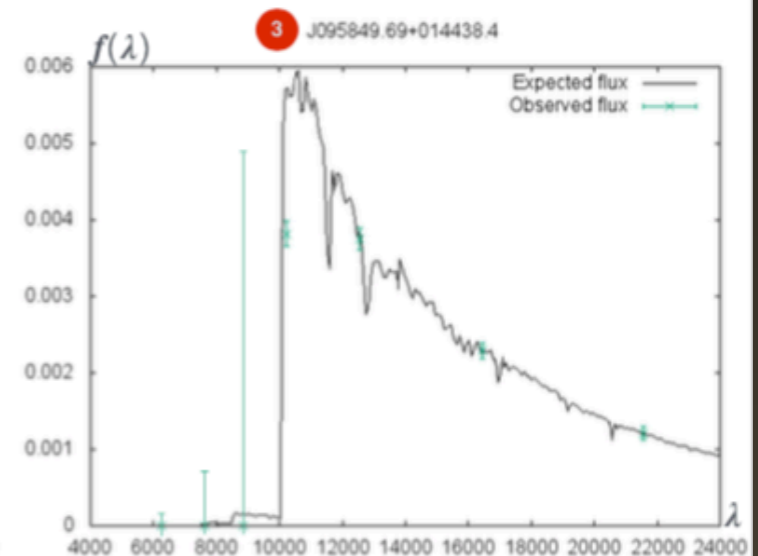
Photometric redshift  
approximation by hyper program



$Z \sim 6.9$   
Irregular Galaxy



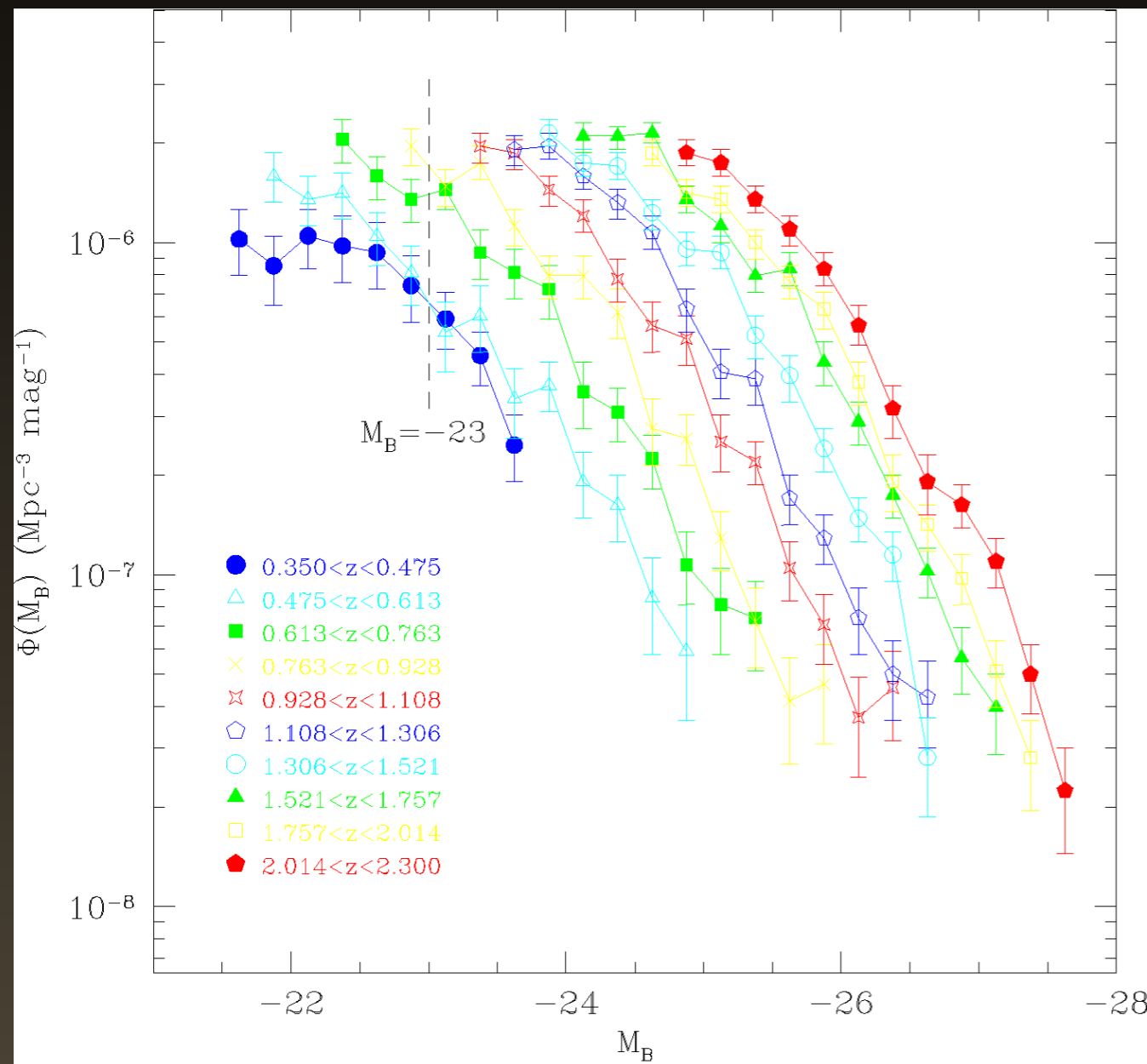
$Z \sim 7.3$   
Elliptical Galaxy



$Z \sim 7.2$   
Elliptical Galaxy

# “ Quasar Luminosity Function (QLF)”

the number density of quasars as a function of their luminosity interval



QLF measurement places the constraints on

— the quasars UV photons  
Epoch of reionization

— the evolution of  
Supermassive Blackholes