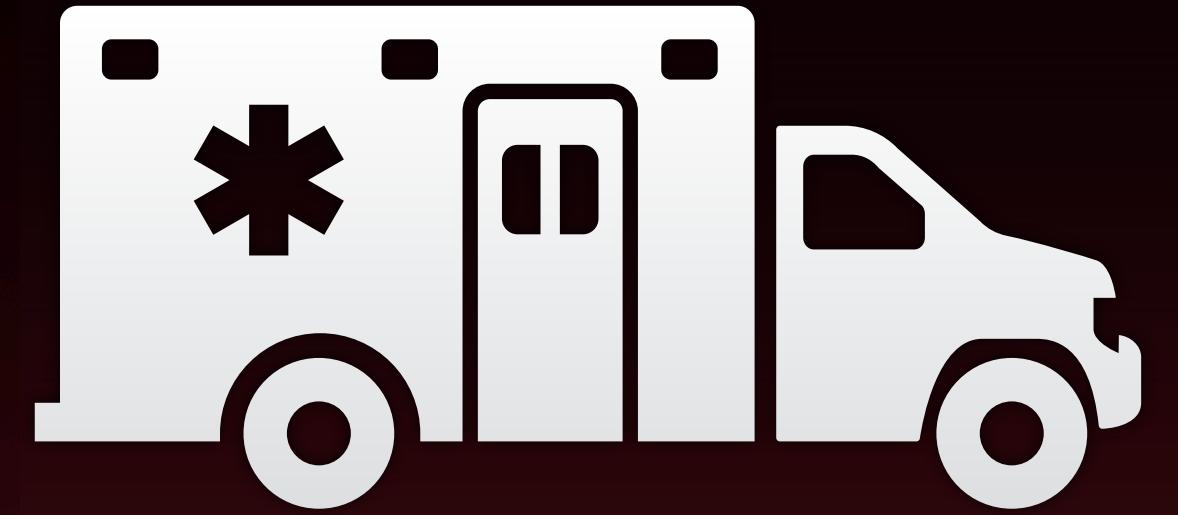
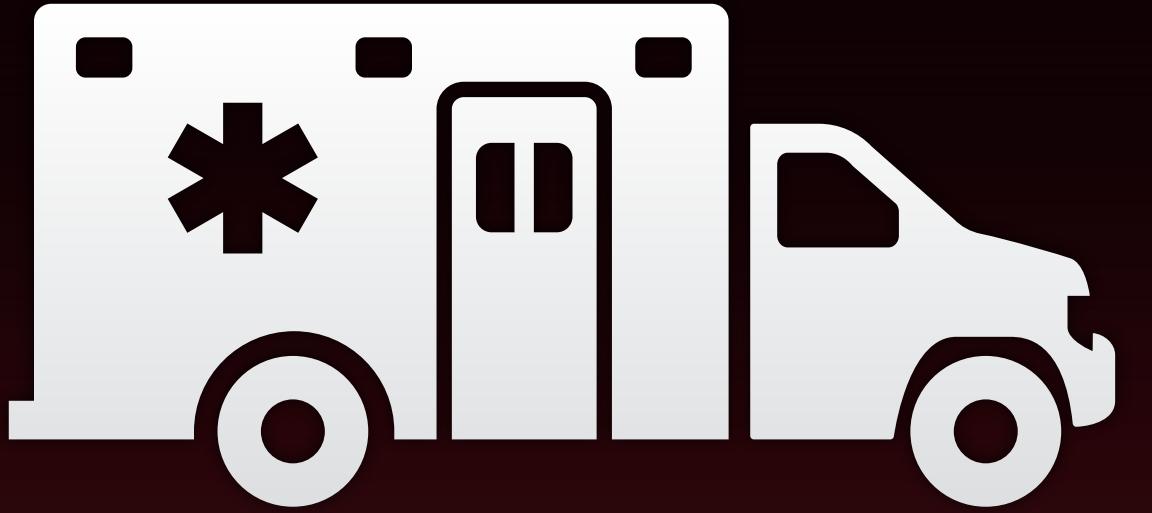
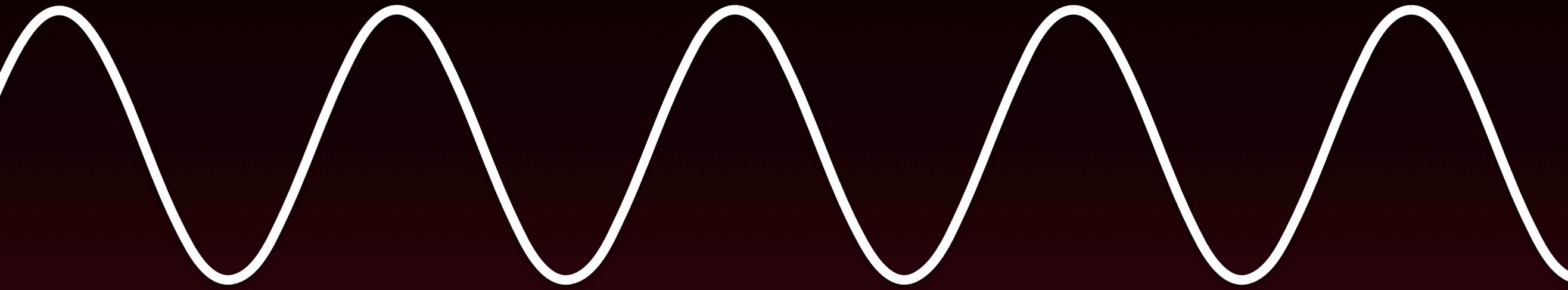


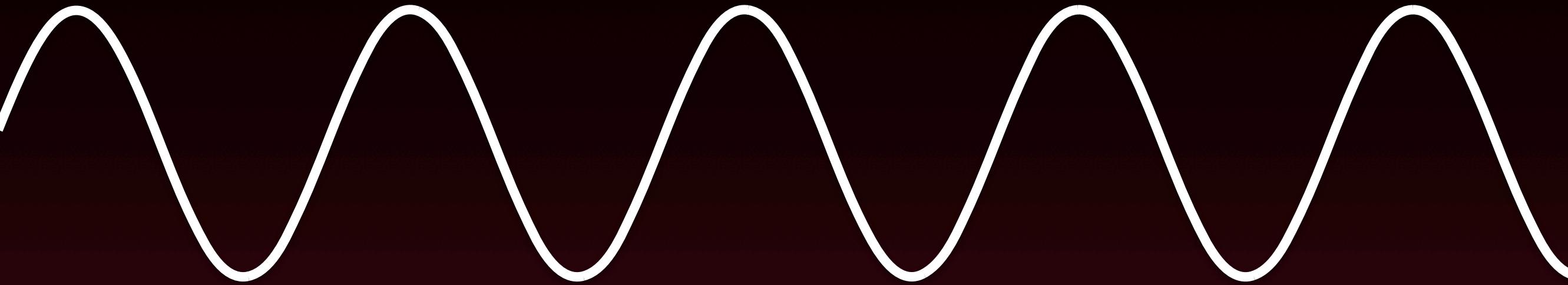


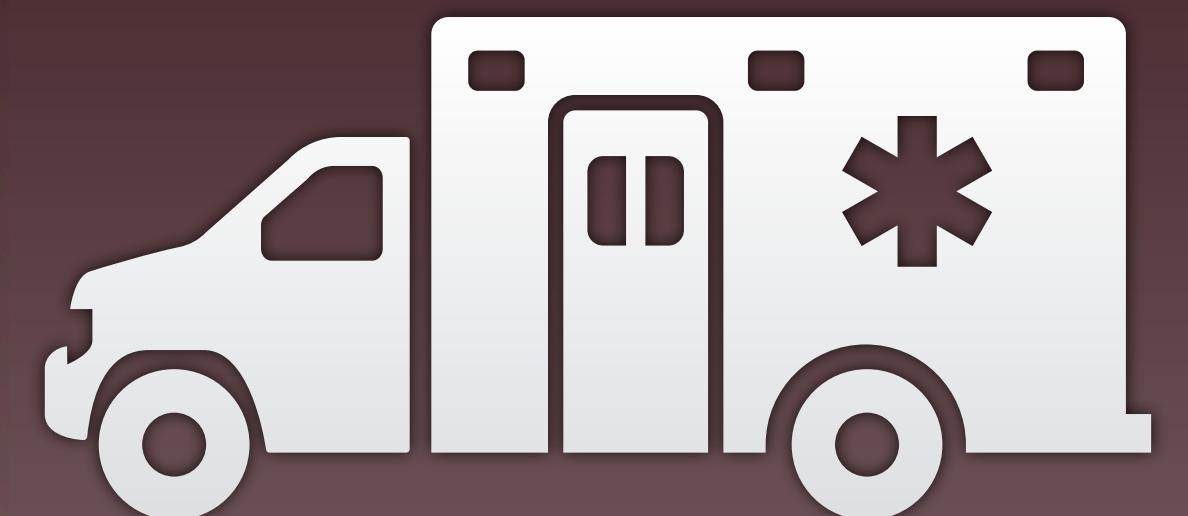
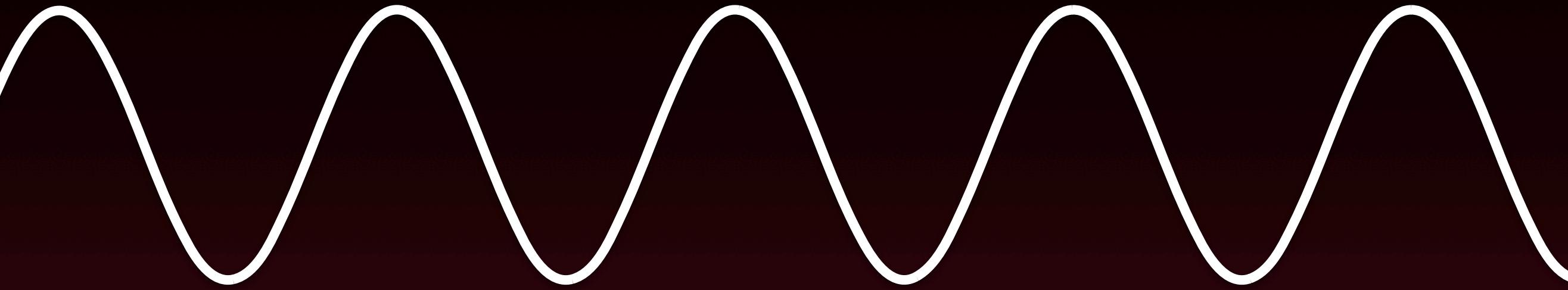
# Doppler Effect

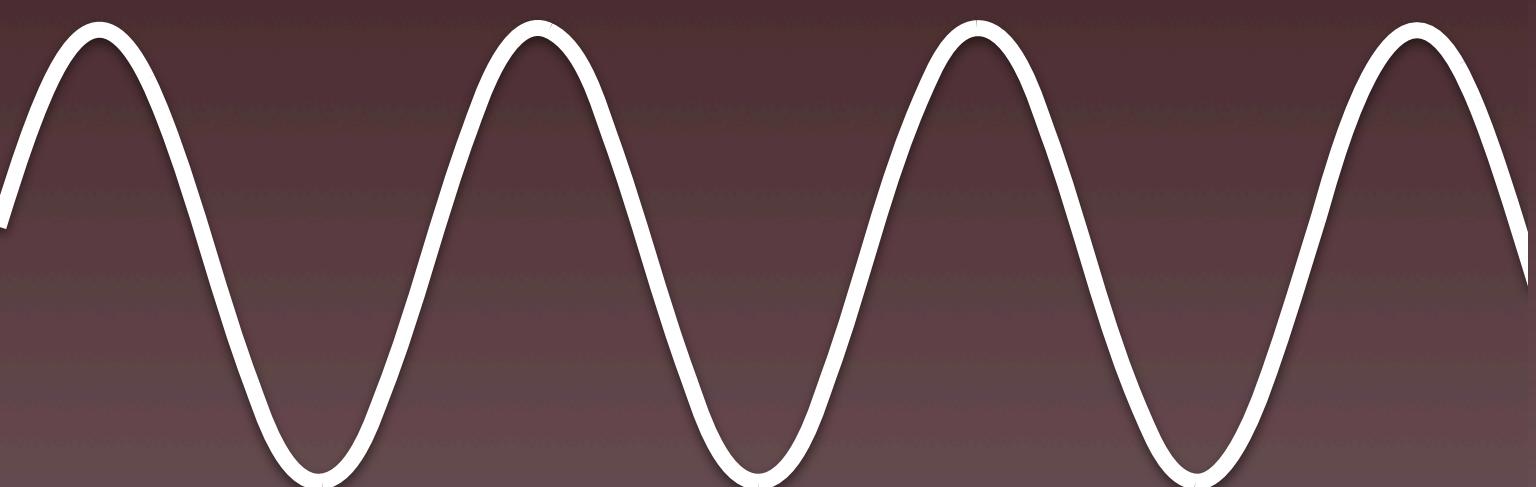
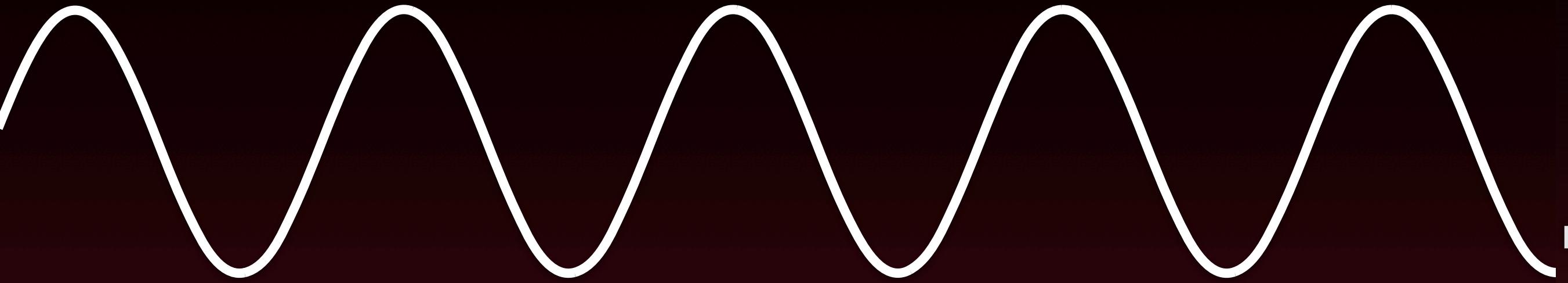




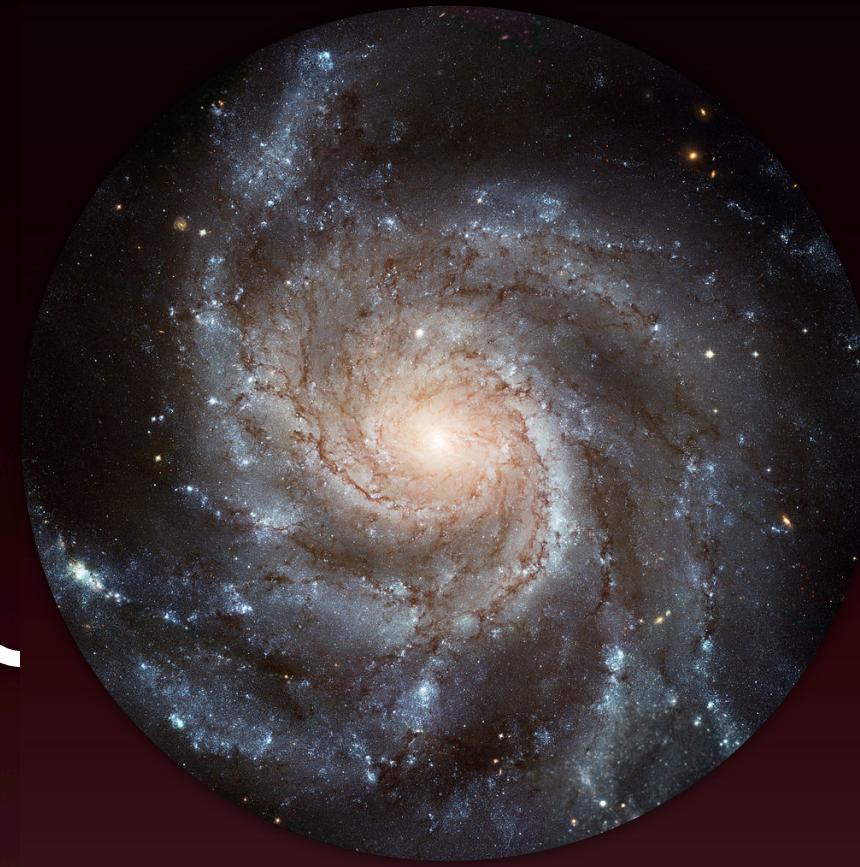
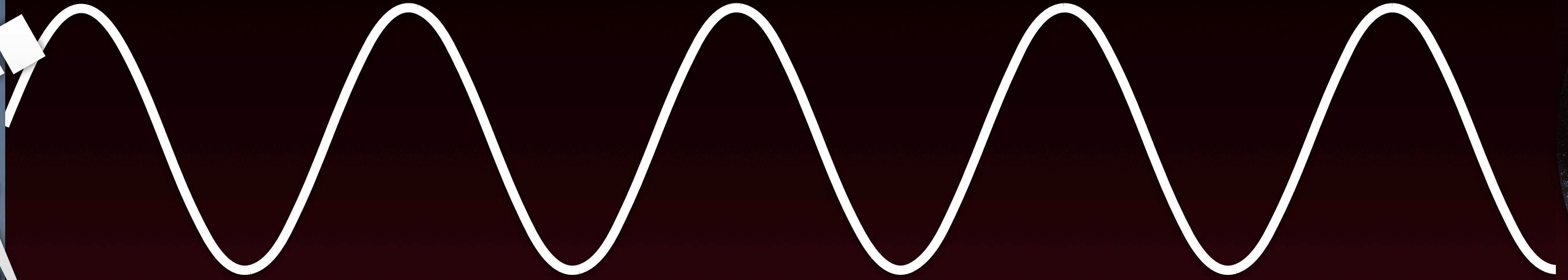


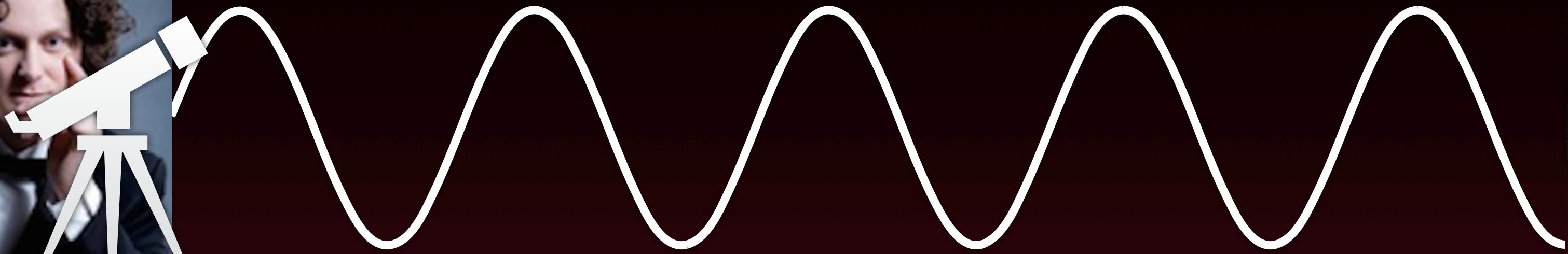






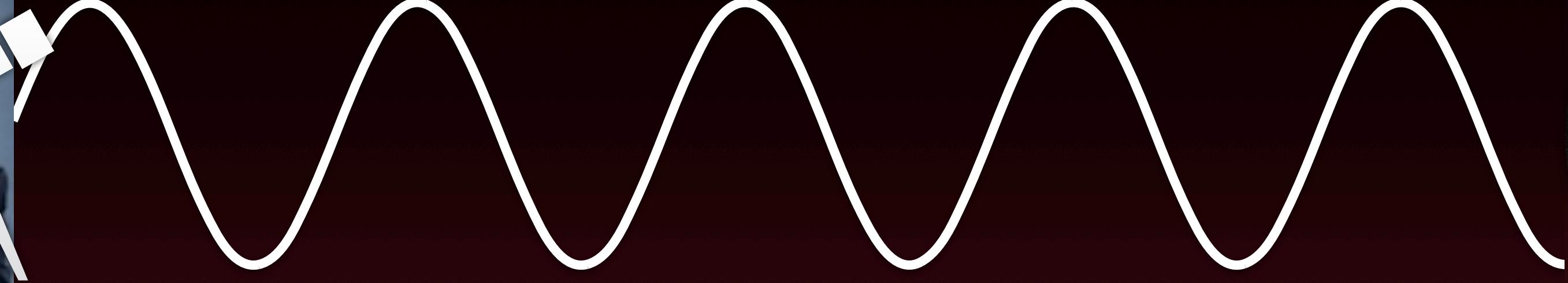


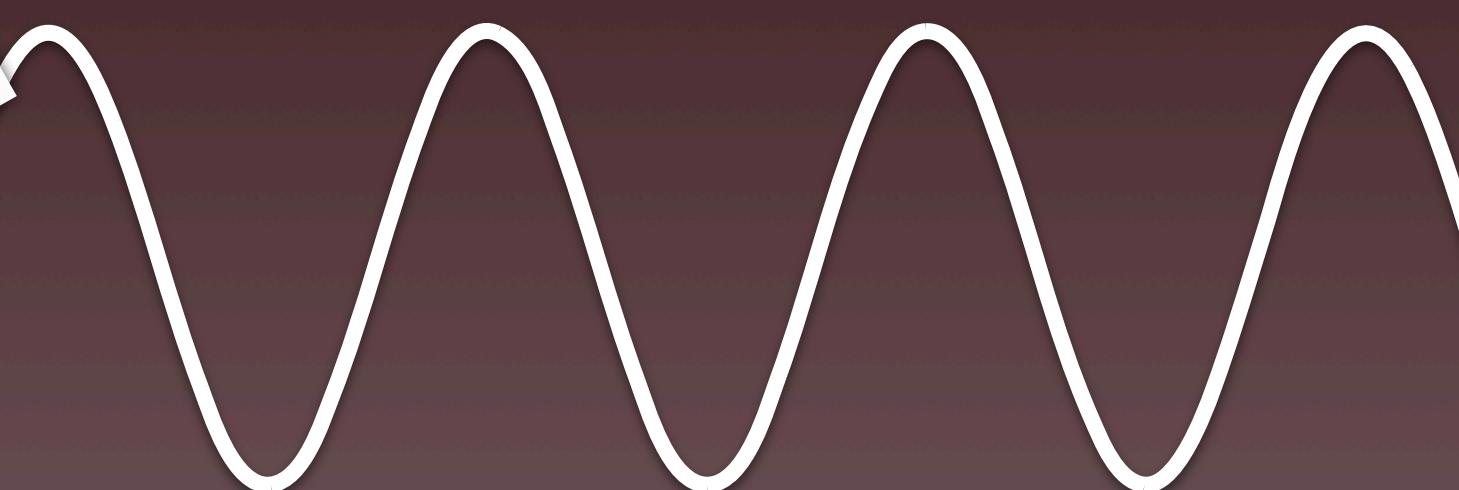
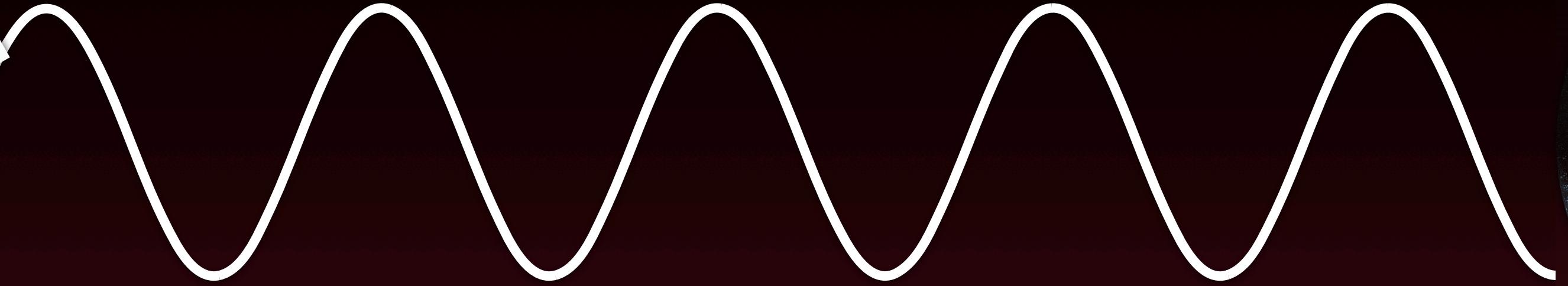


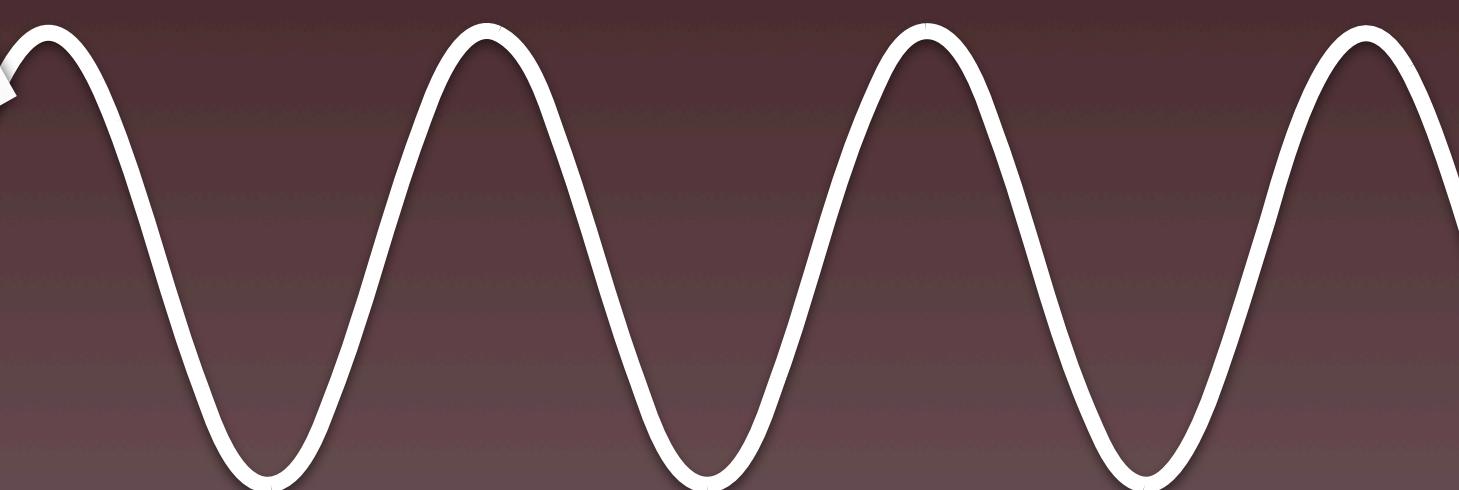












# Redshift

# Redshift

$\propto$

# Radial velocity





Redshift

$\propto$

Radial velocity

$\propto$

Distance

Redshift

$\propto$

Radial velocity

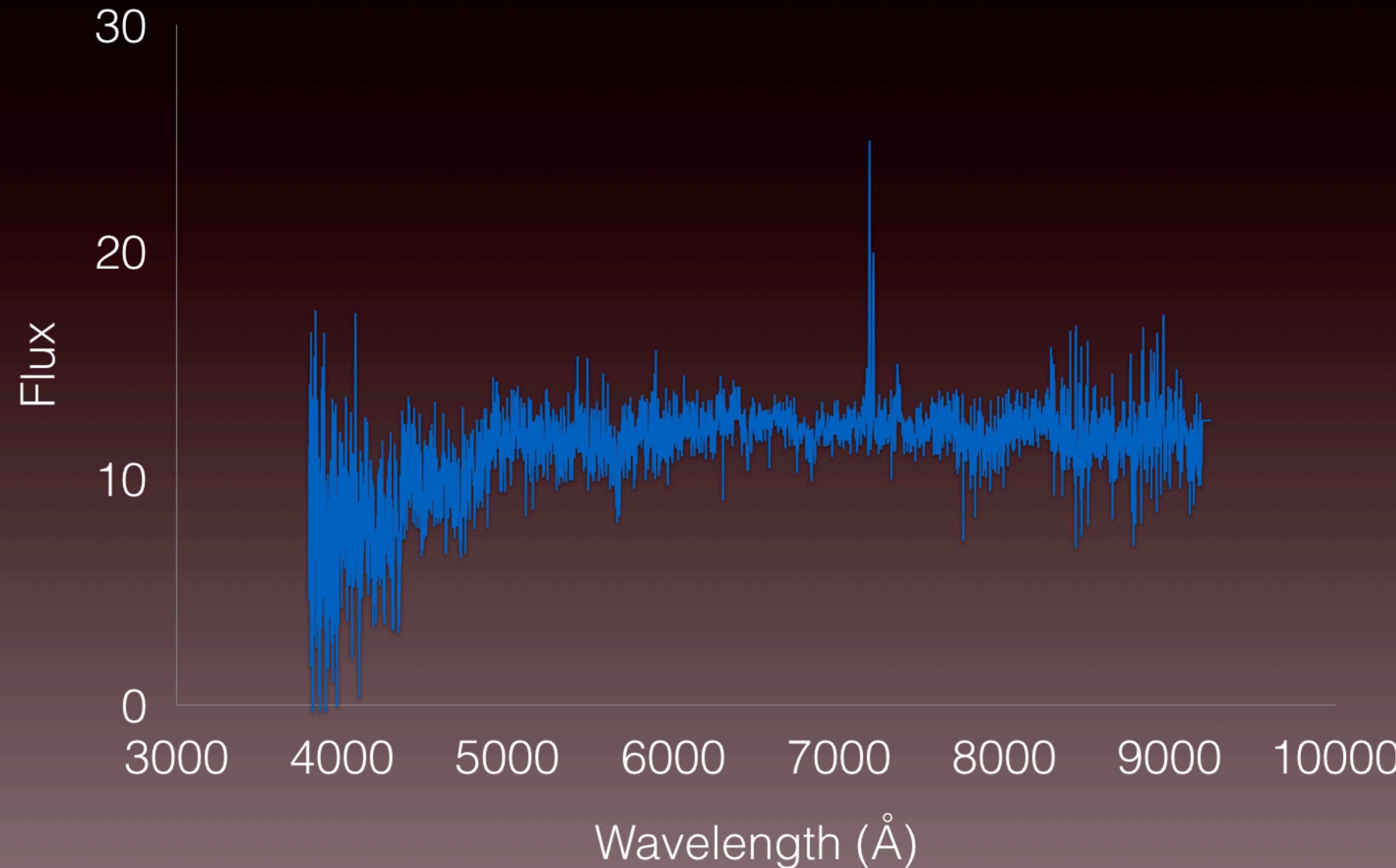
$\propto$

Distance

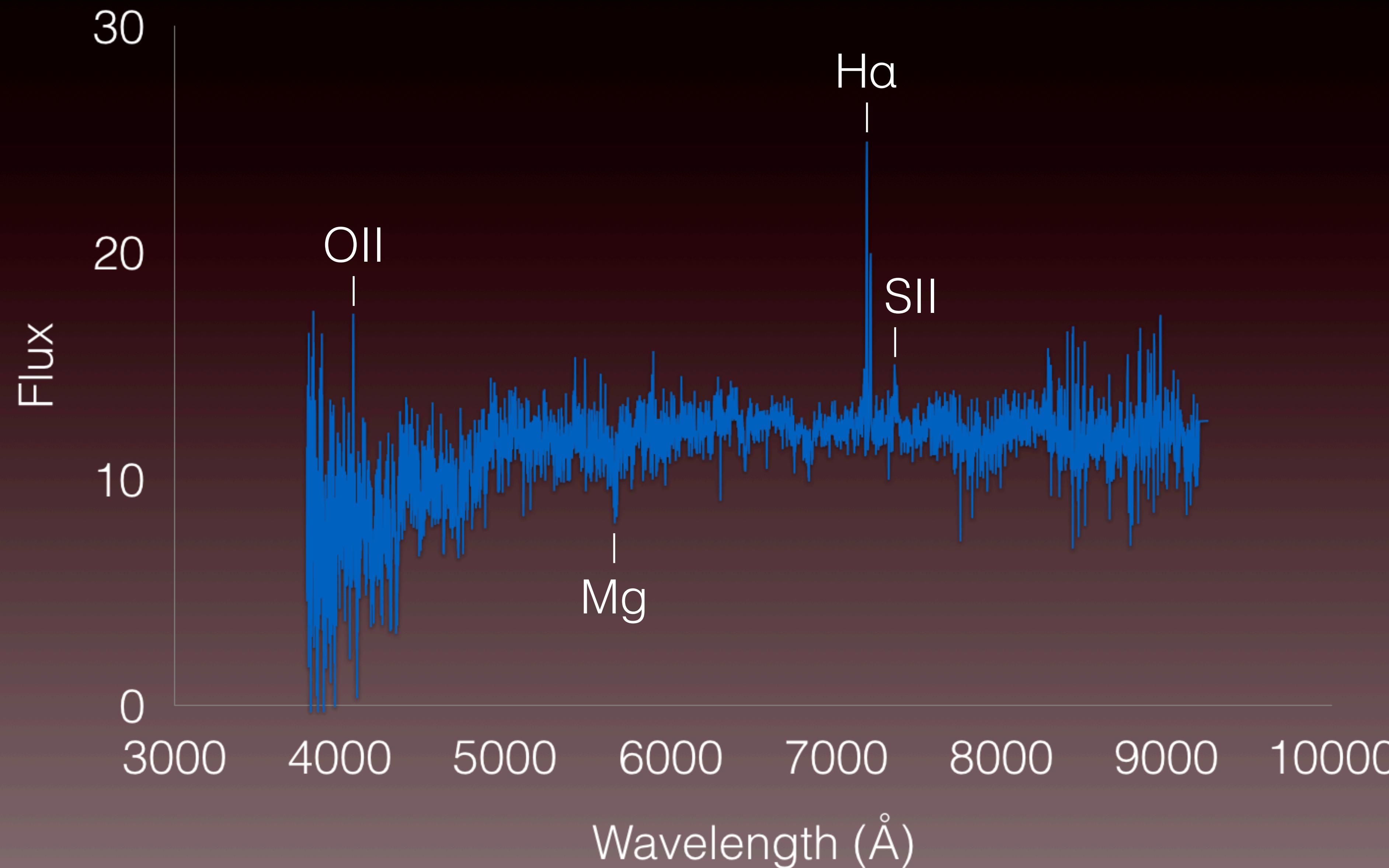
$\propto$

Age

# Spectrum of example galaxy

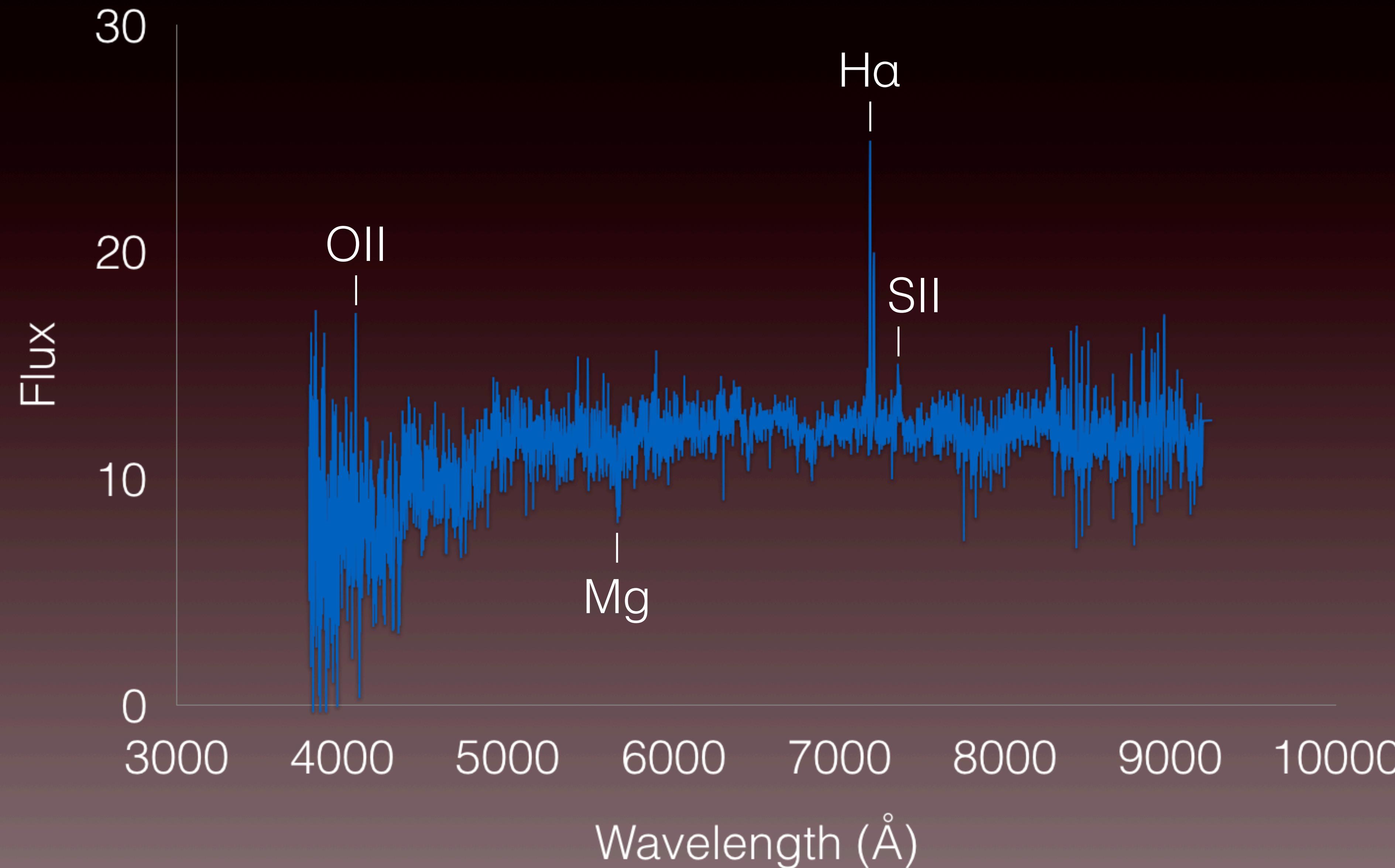


# Spectrum of example galaxy



# Spectrum of example galaxy

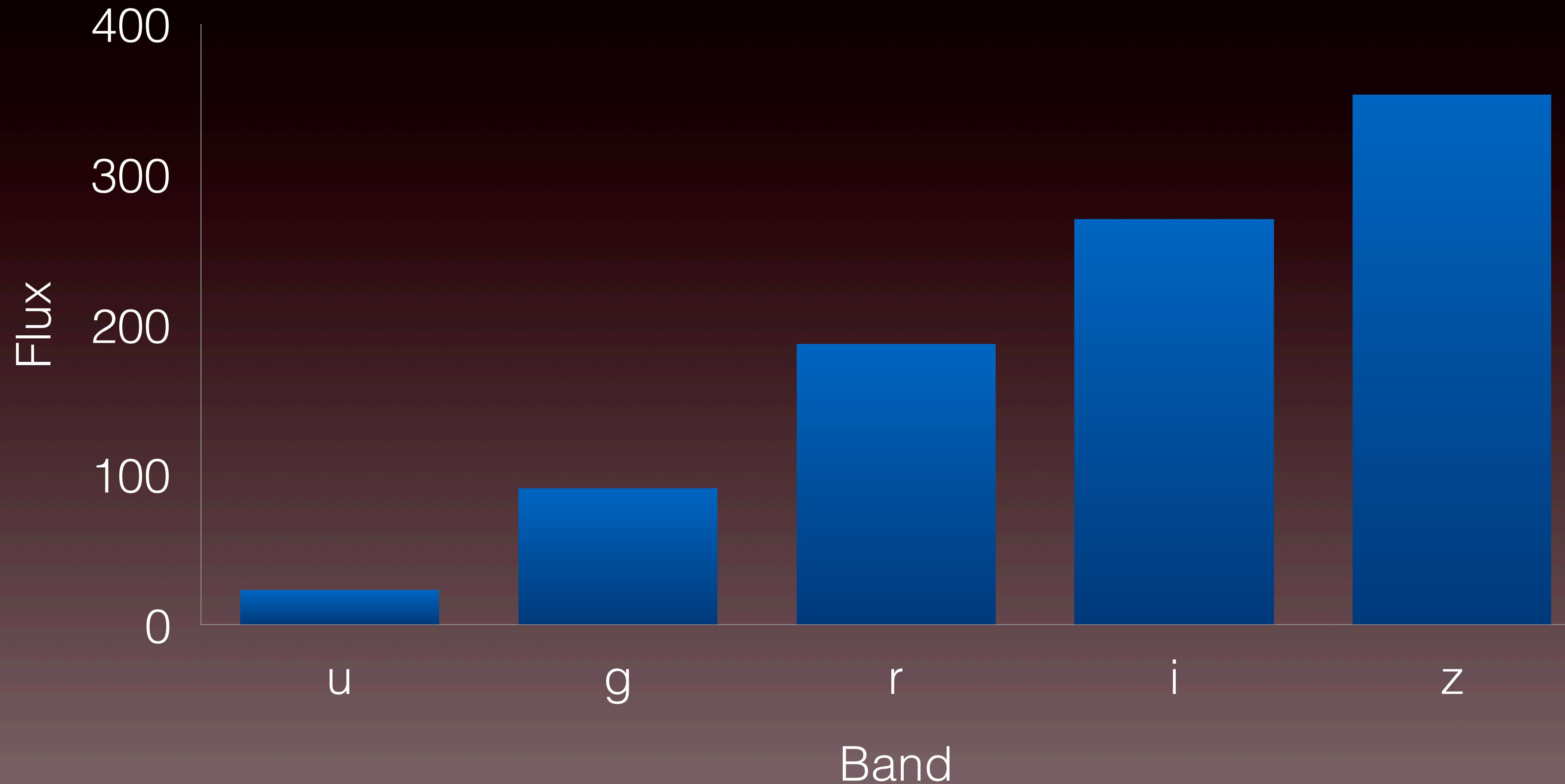
$z = 0.09484$



# 750 Million

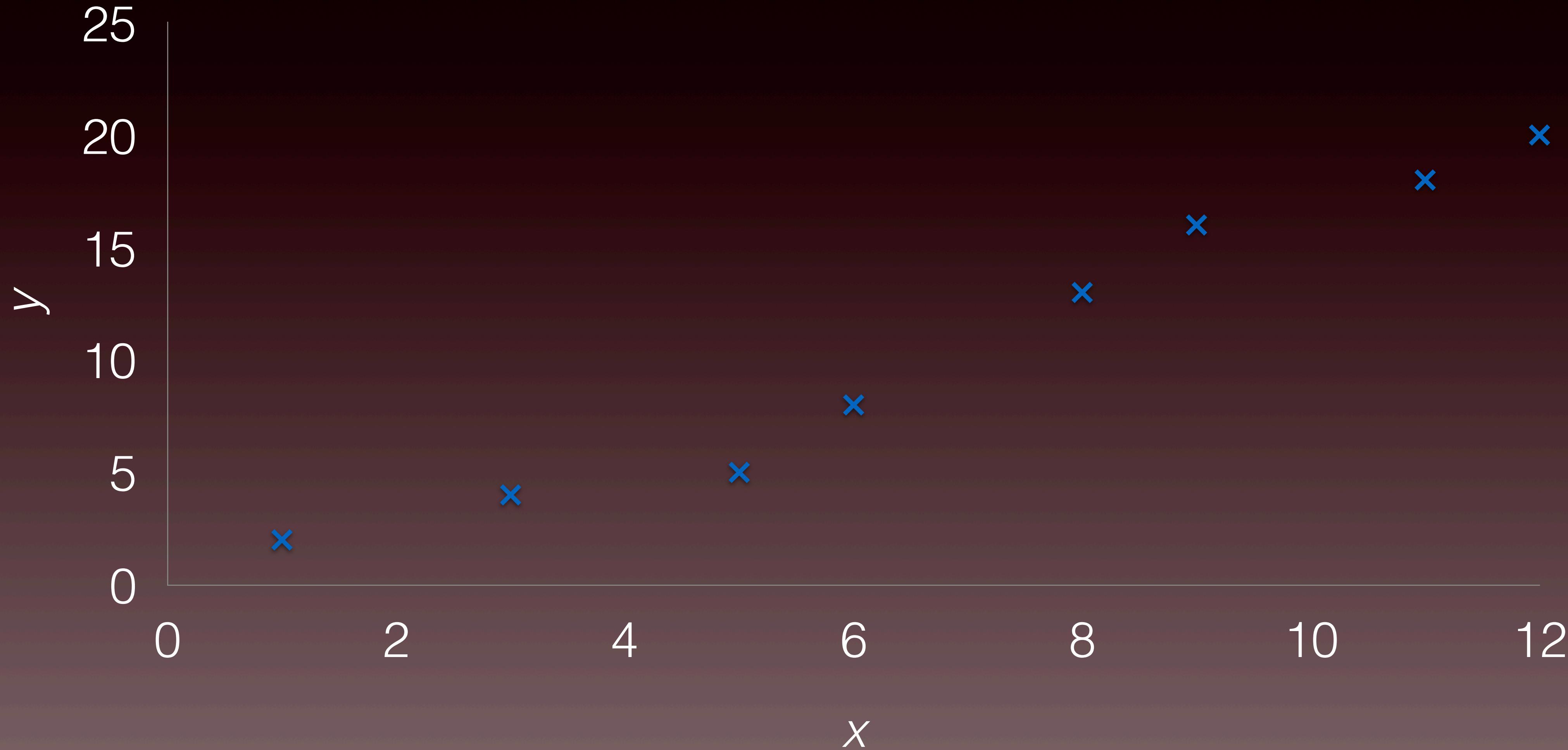
galaxies in the AllWISE survey,  $z \leq 0.5$

# Photometric data of same example galaxy

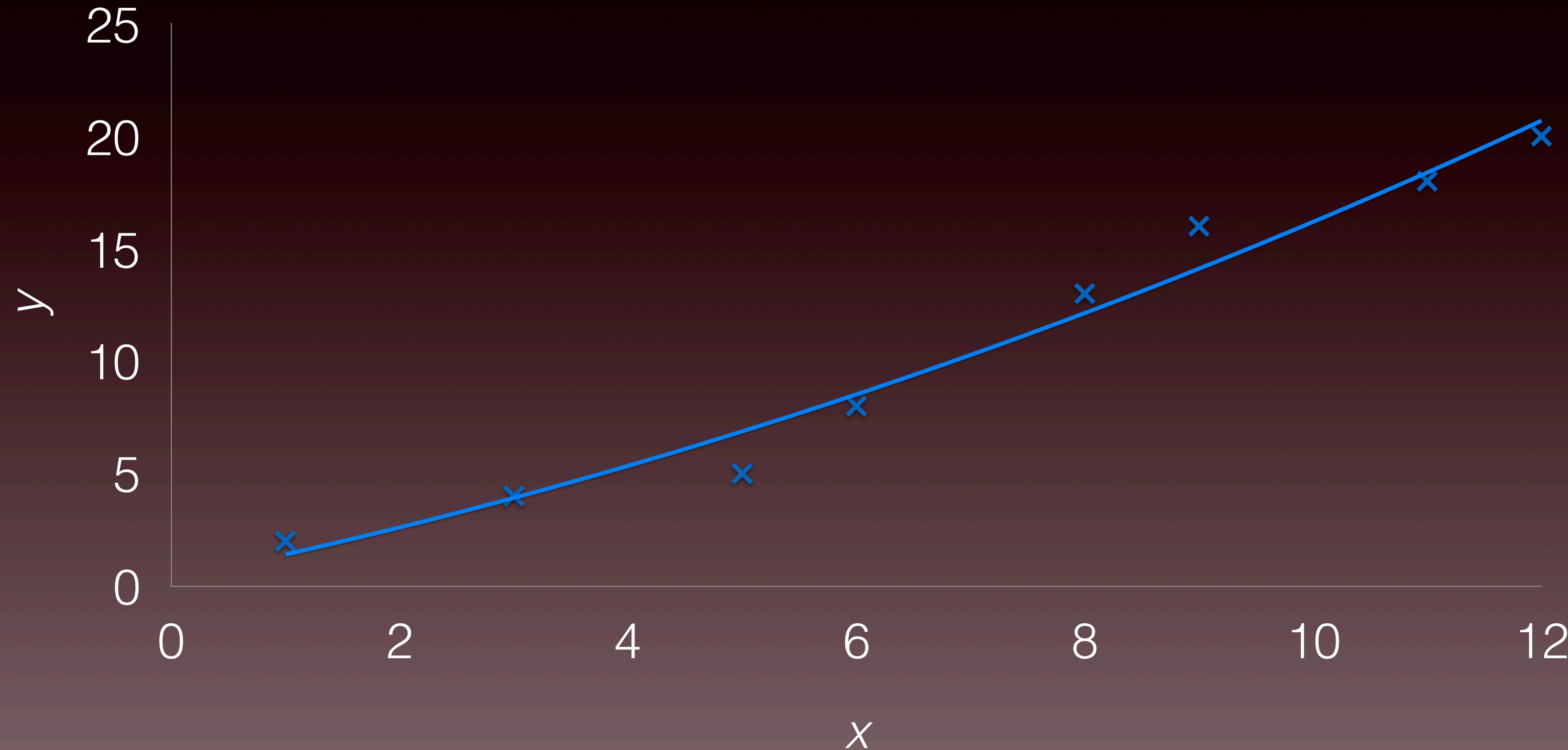


# Regression

# Regression

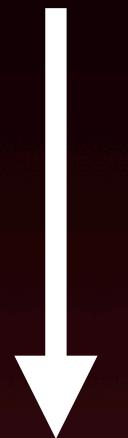


# Regression



# Active learning

Photometric data



Active learning



Recommendations

Photometric data



Regression



Uncertainties

Active learning



Recommendations

Photometric data



Regression

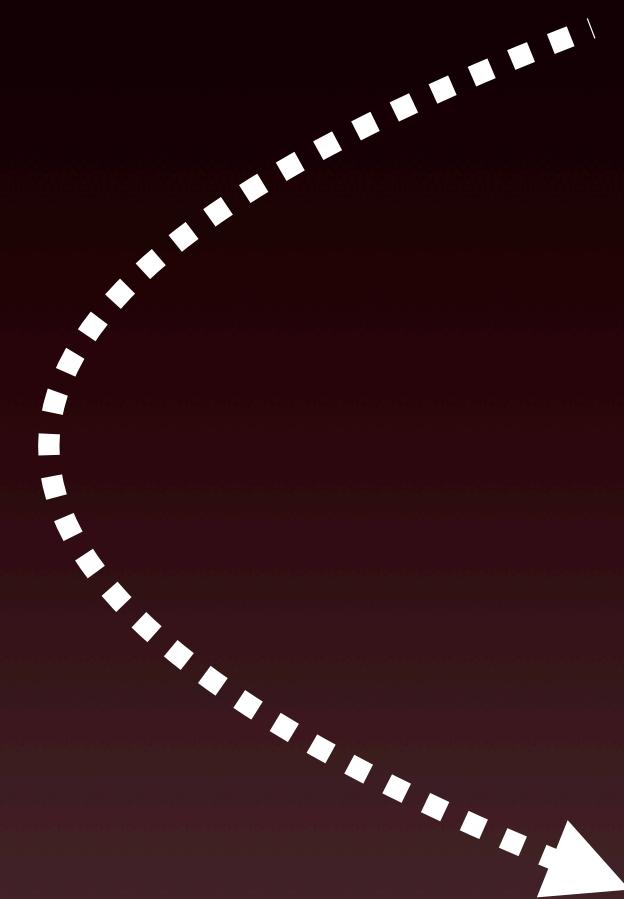


Uncertainties

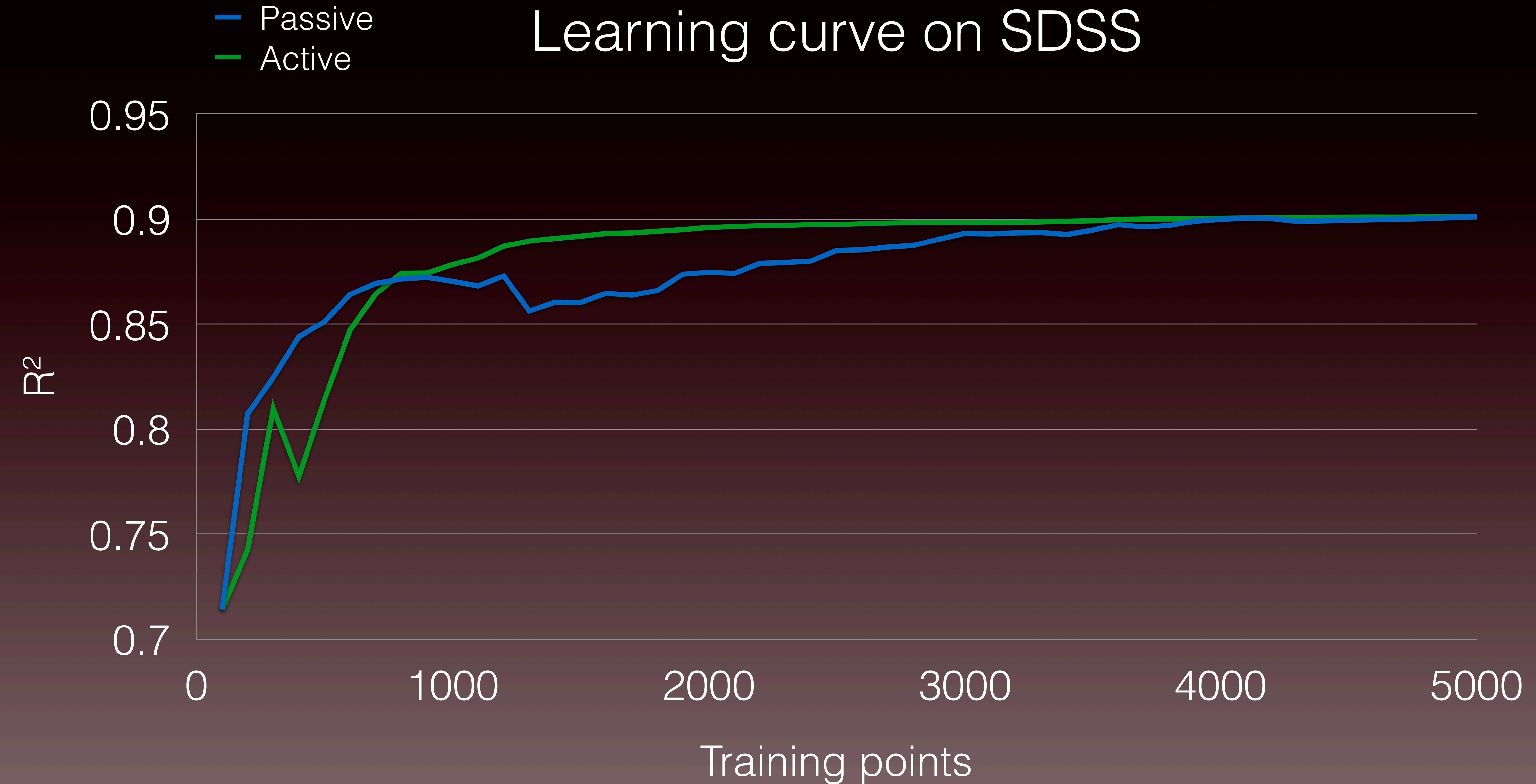
Active learning



Recommendations



# Learning curve on SDSS



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