

# PRECISION COSMOLOGY USING THE LASER FREQUENCY COMB

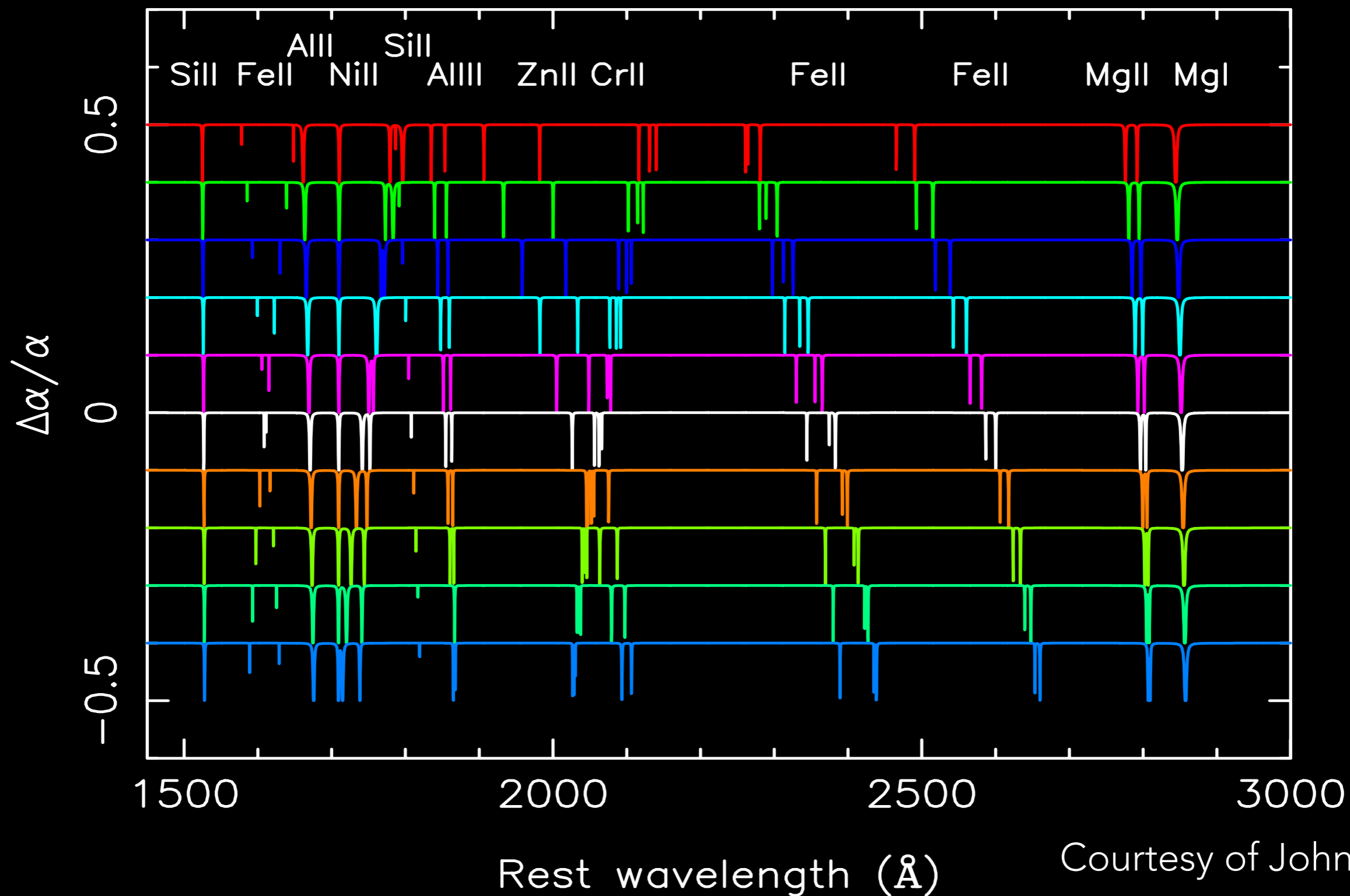
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JOHN WEBB (UNSW)

3RD AZORES COSMOLOGY SCHOOL  
ANGRA DO HEROÍSMO, PORTUGAL, 2017



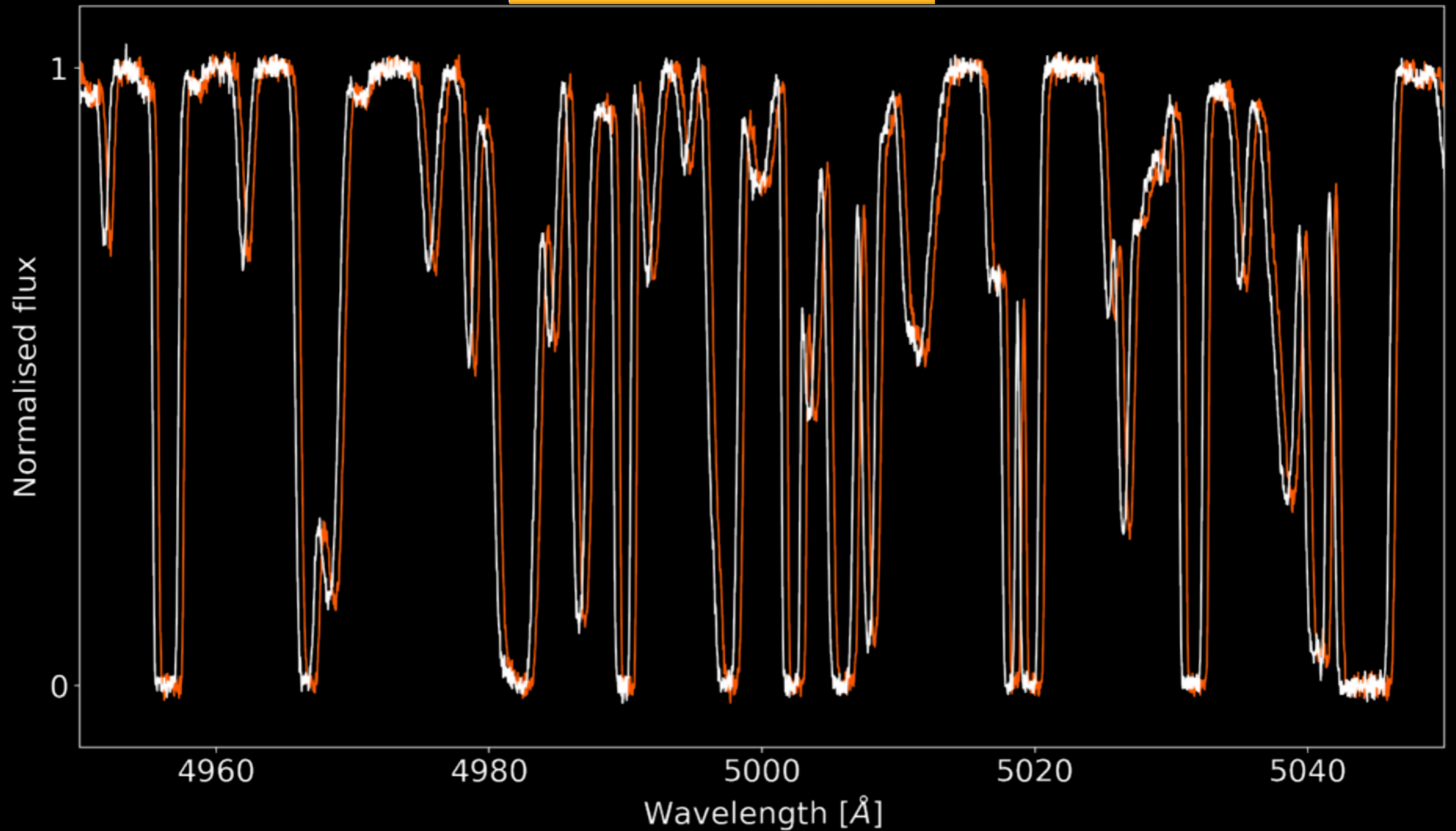
# ARE THE LAWS OF NATURE IMMUTABLE?



Courtesy of John Webb

# HOW DID THE UNIVERSE EXPAND?

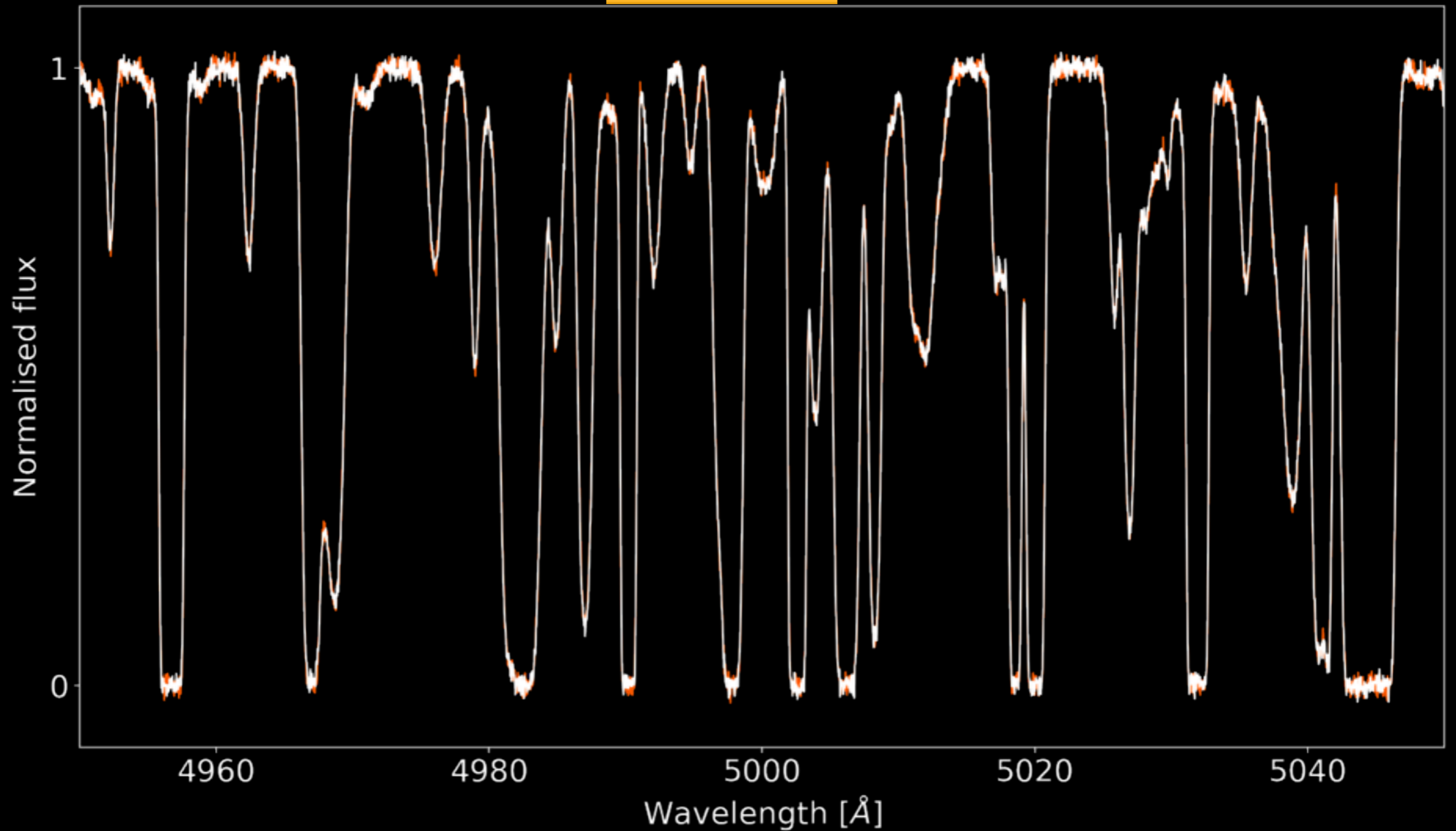
10 000 000 YEARS



Courtesy of Joe Liske

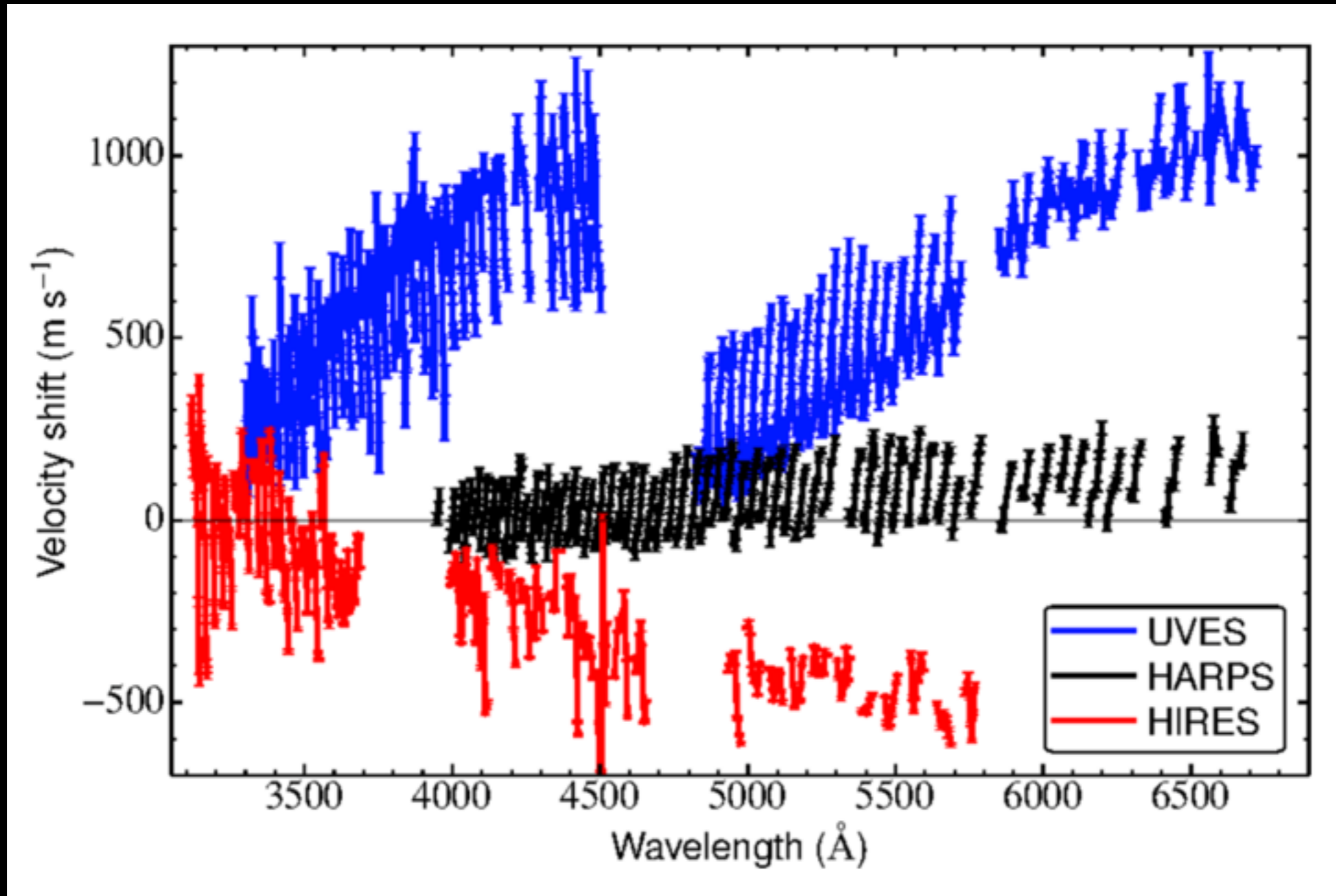
# HOW DID THE UNIVERSE EXPAND?

10 YEARS



Courtesy of Joe Liske

# WAVELENGTH DISTORTIONS



# LASER FREQUENCY COMB



# RESULTS FROM HARPS

