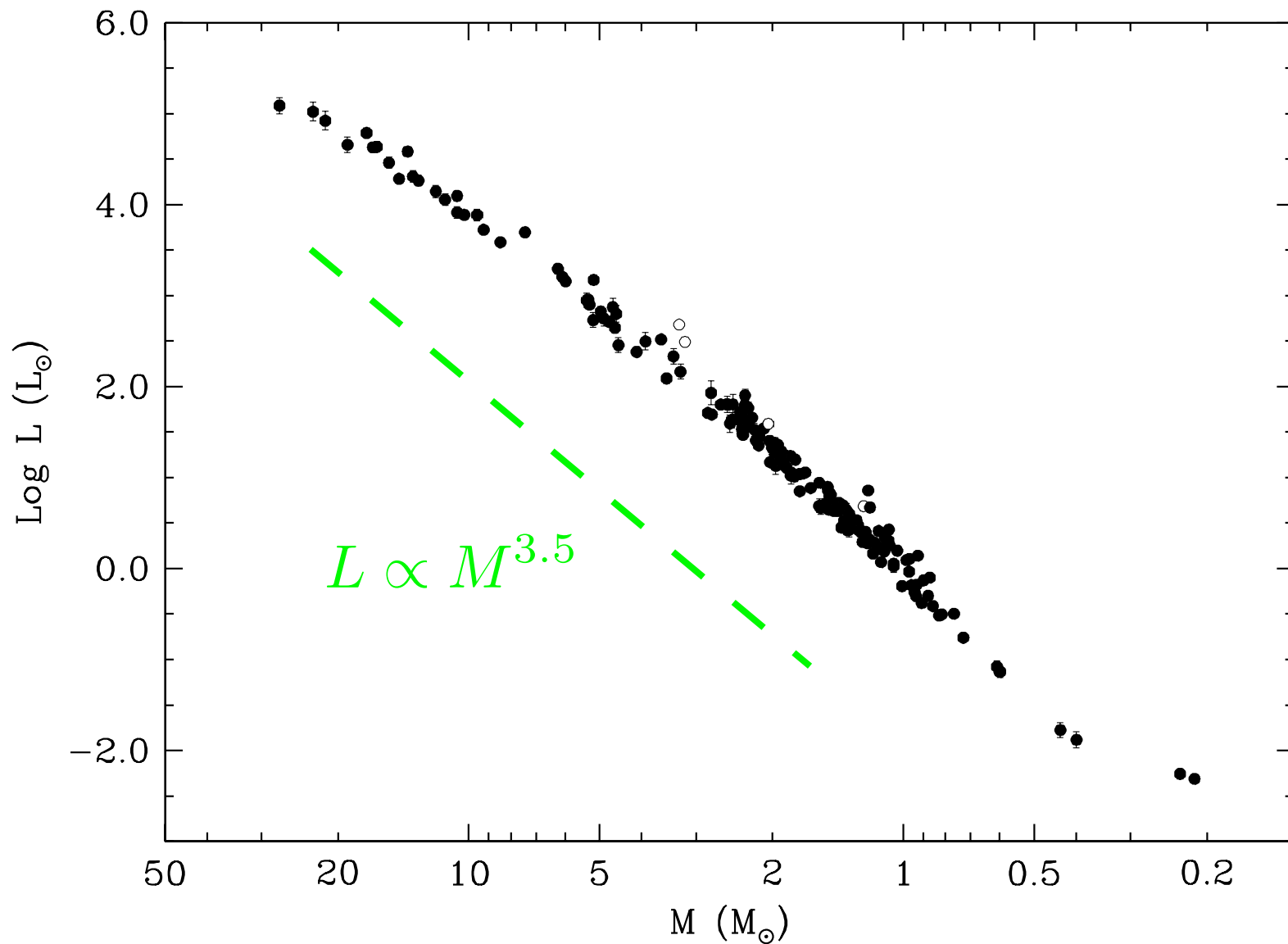


Structure and Evolution of Stars

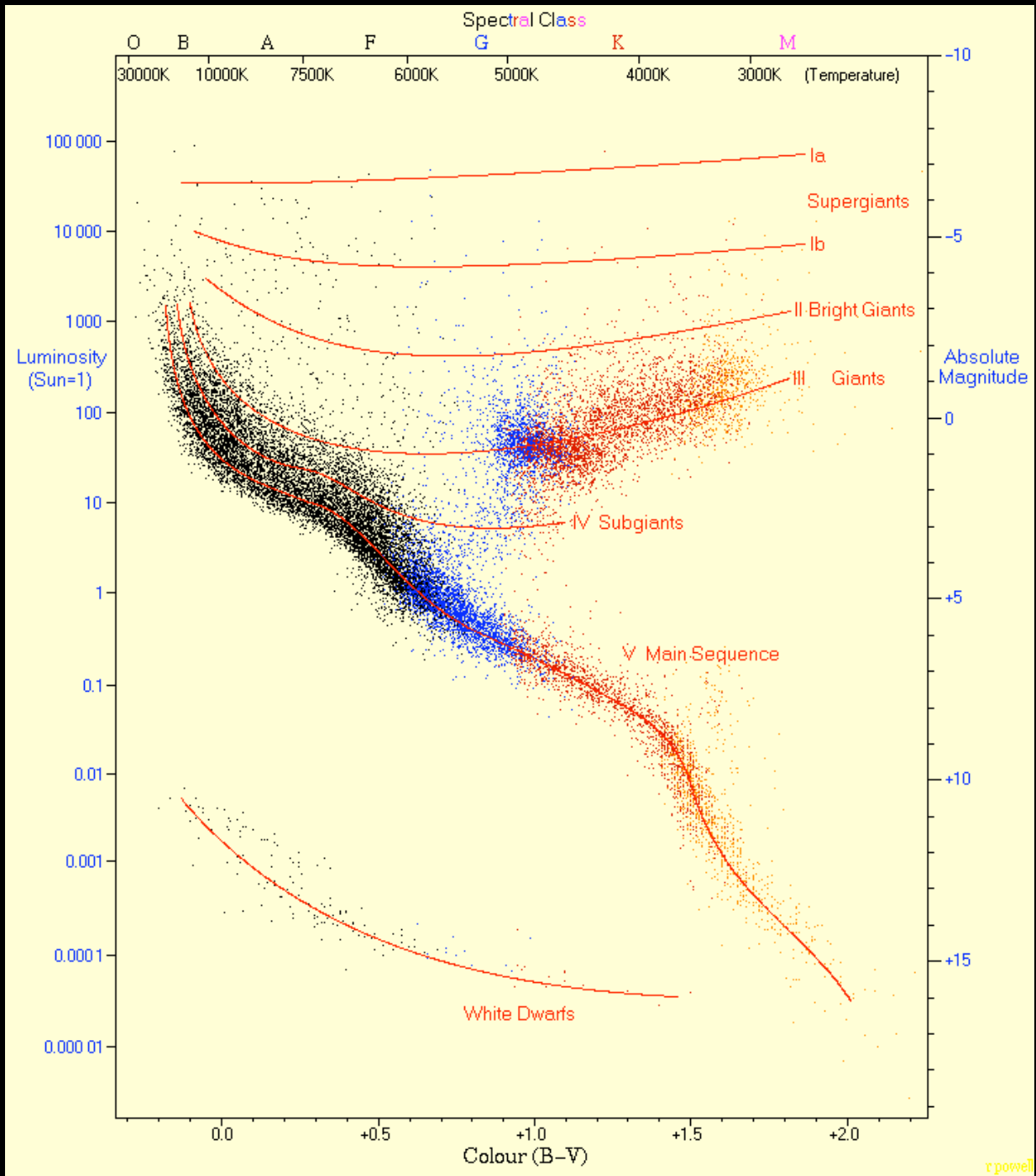


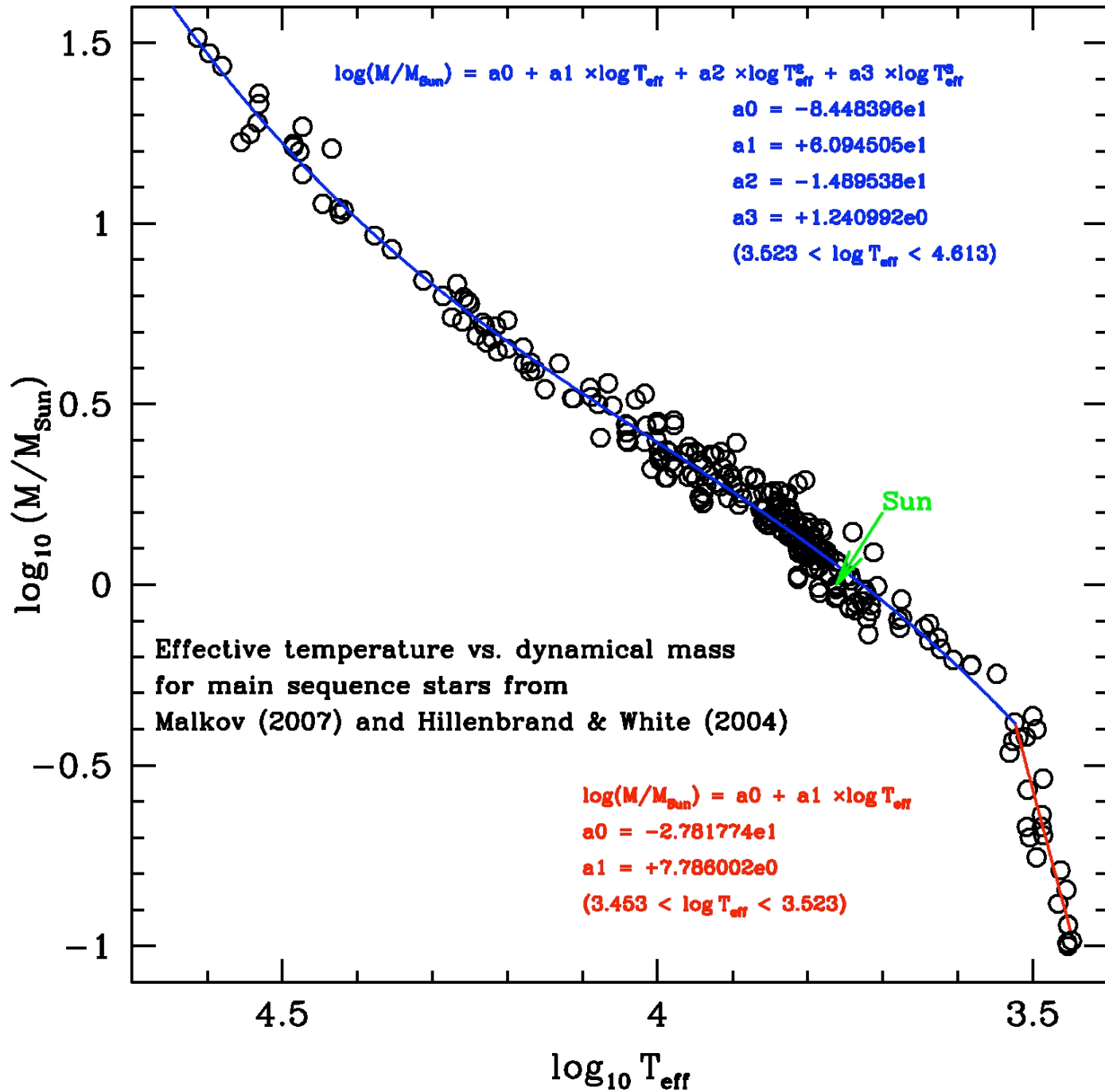
Lecture 10

Mass-Luminosity relation for 190 stars in 95 detached binary systems
whose radii and masses are known to better than 3%

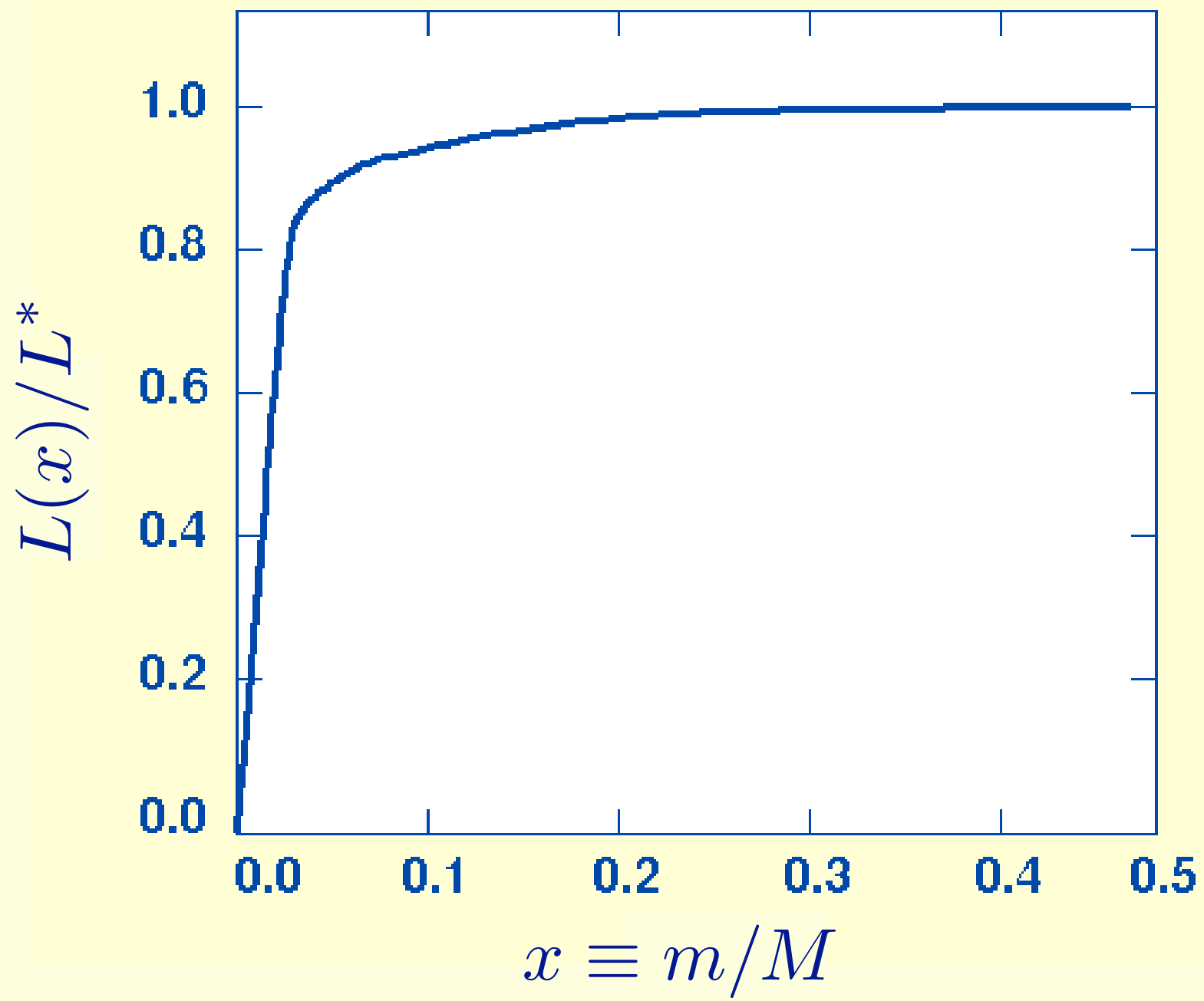


Torres et al. 2010

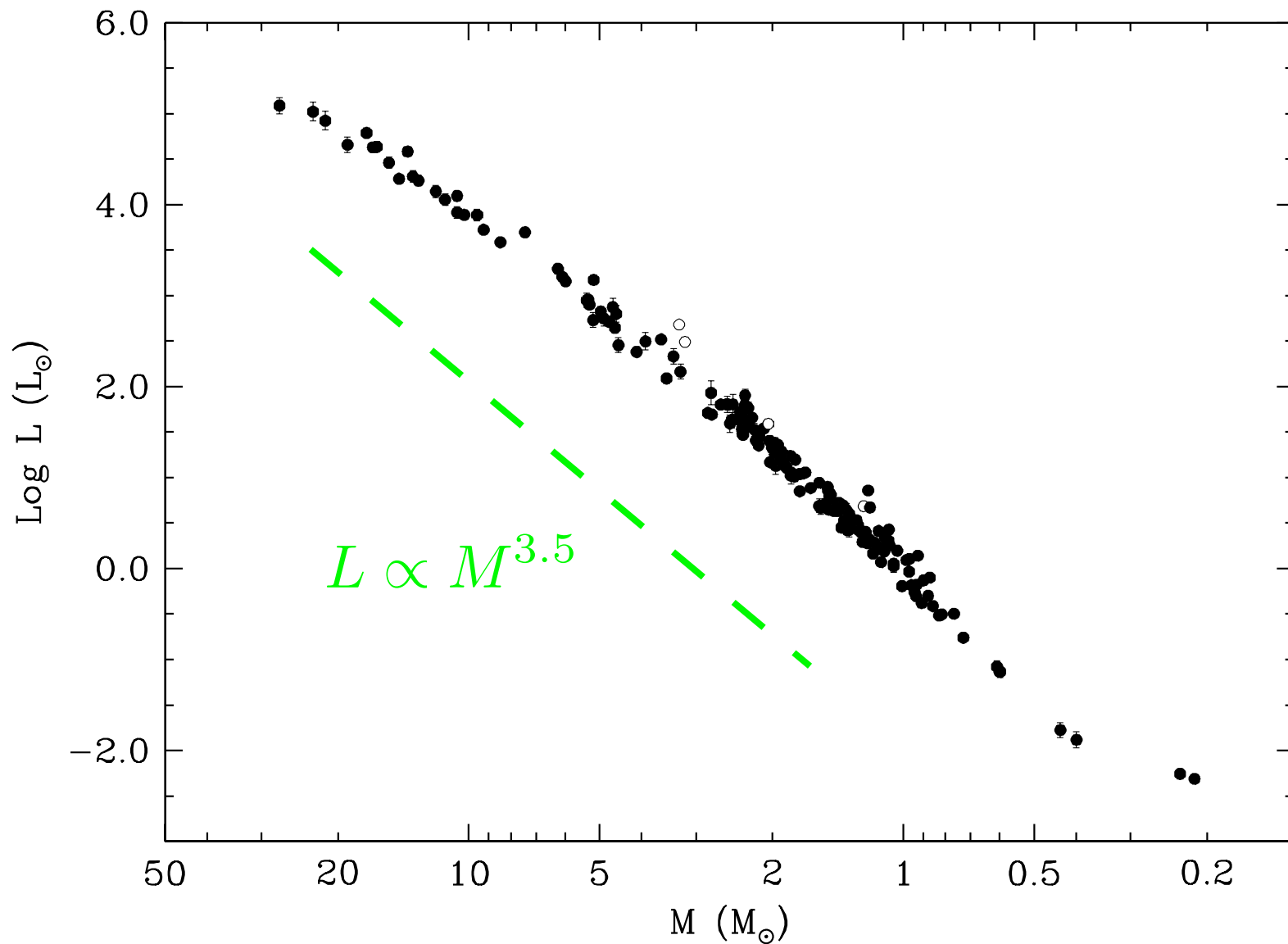




E. Mamajek (2/10/2011)

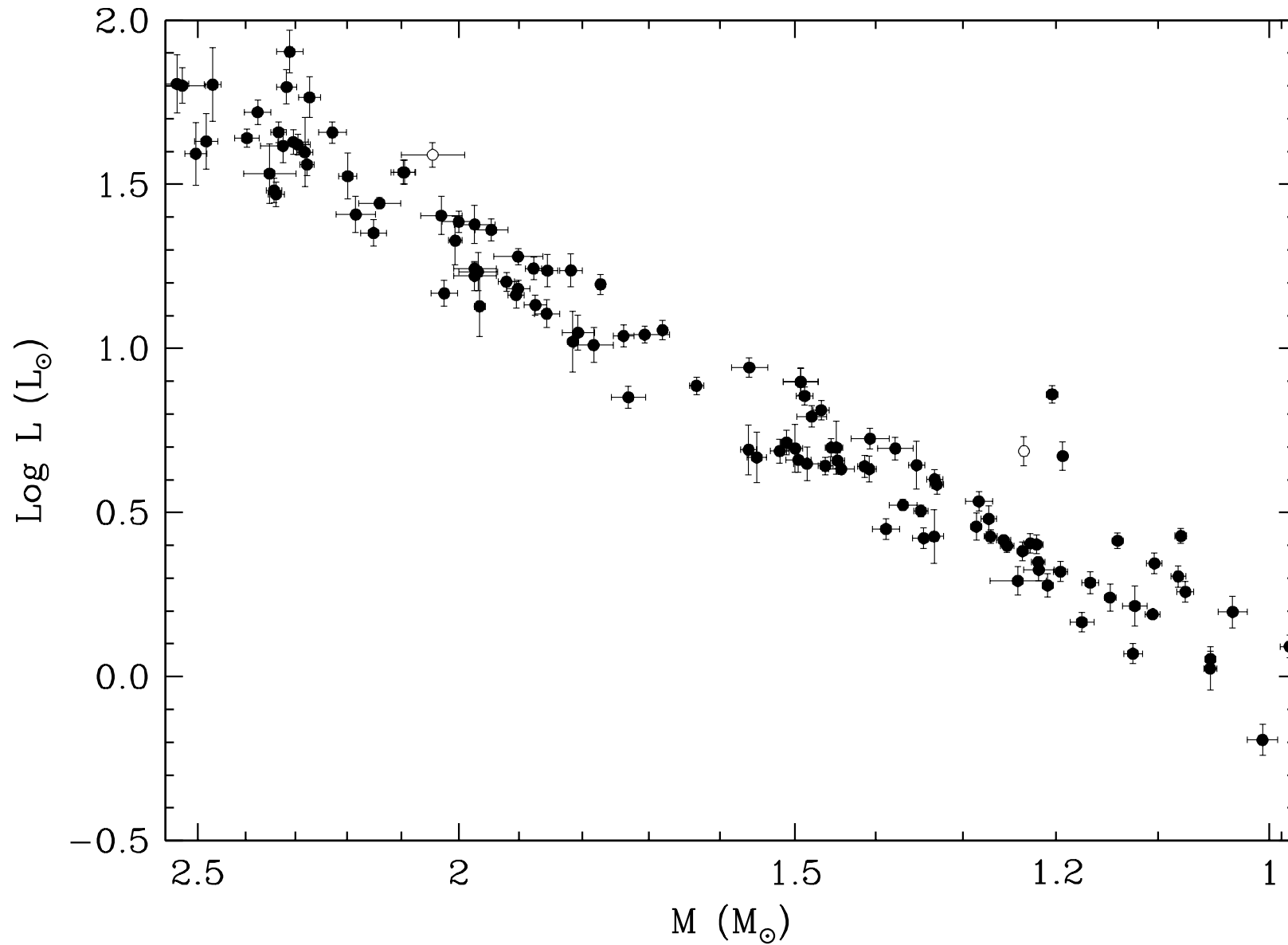


Mass-Luminosity relation for 190 stars in 95 detached binary systems
whose radii and masses are known to better than 3%



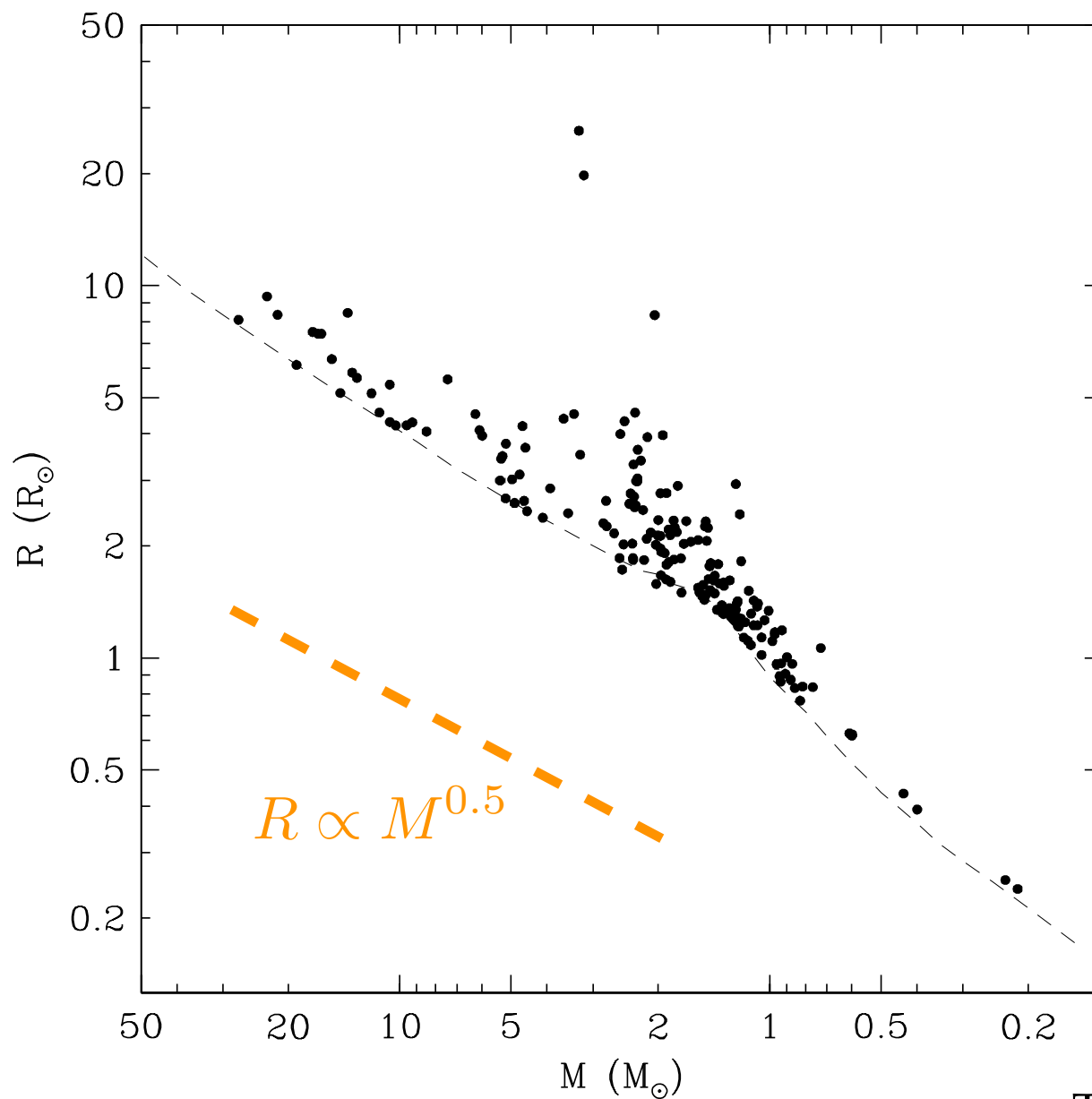
Torres et al. 2010

There is a real spread to the M-L relation

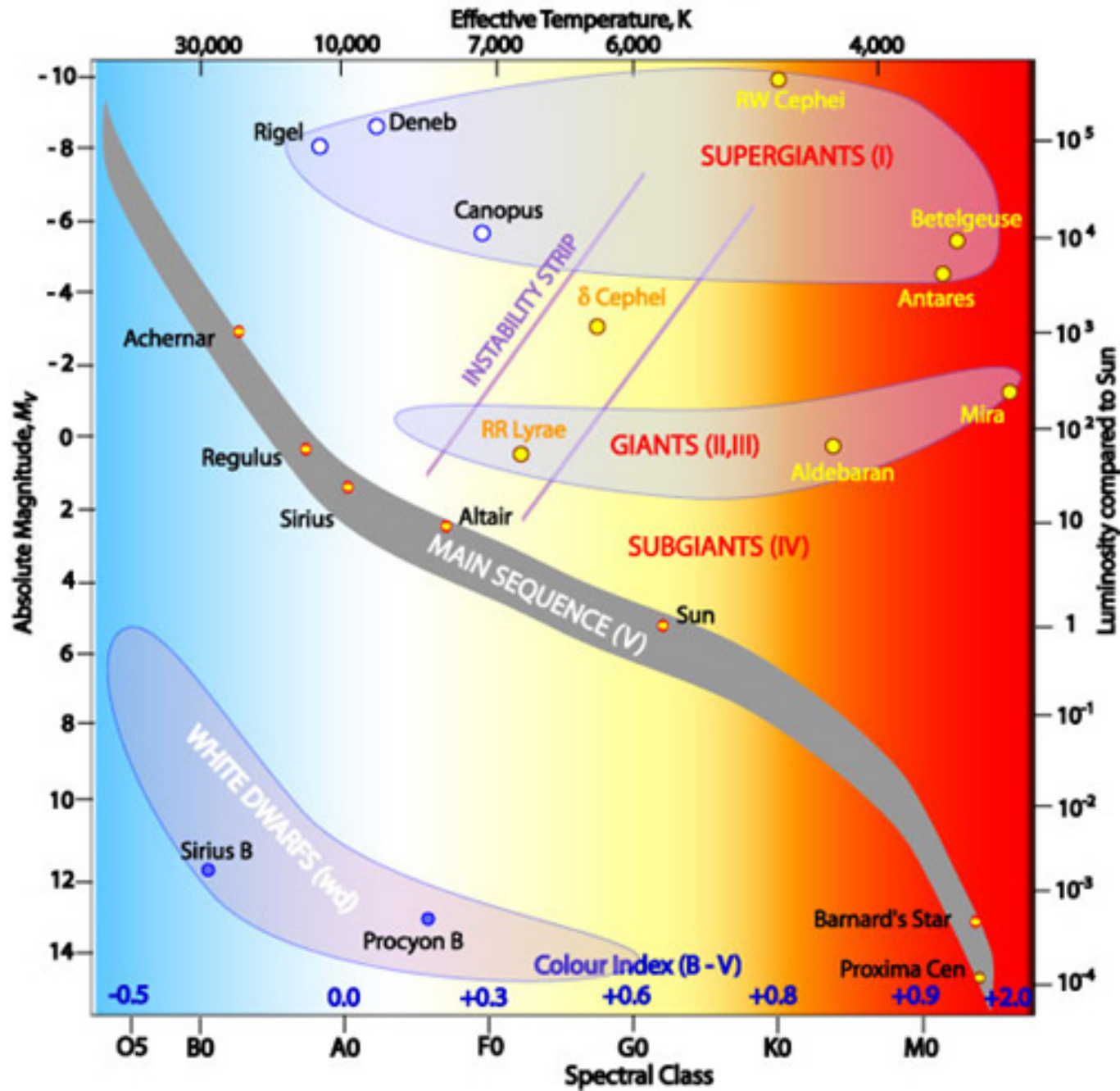


Torres et al. 2010

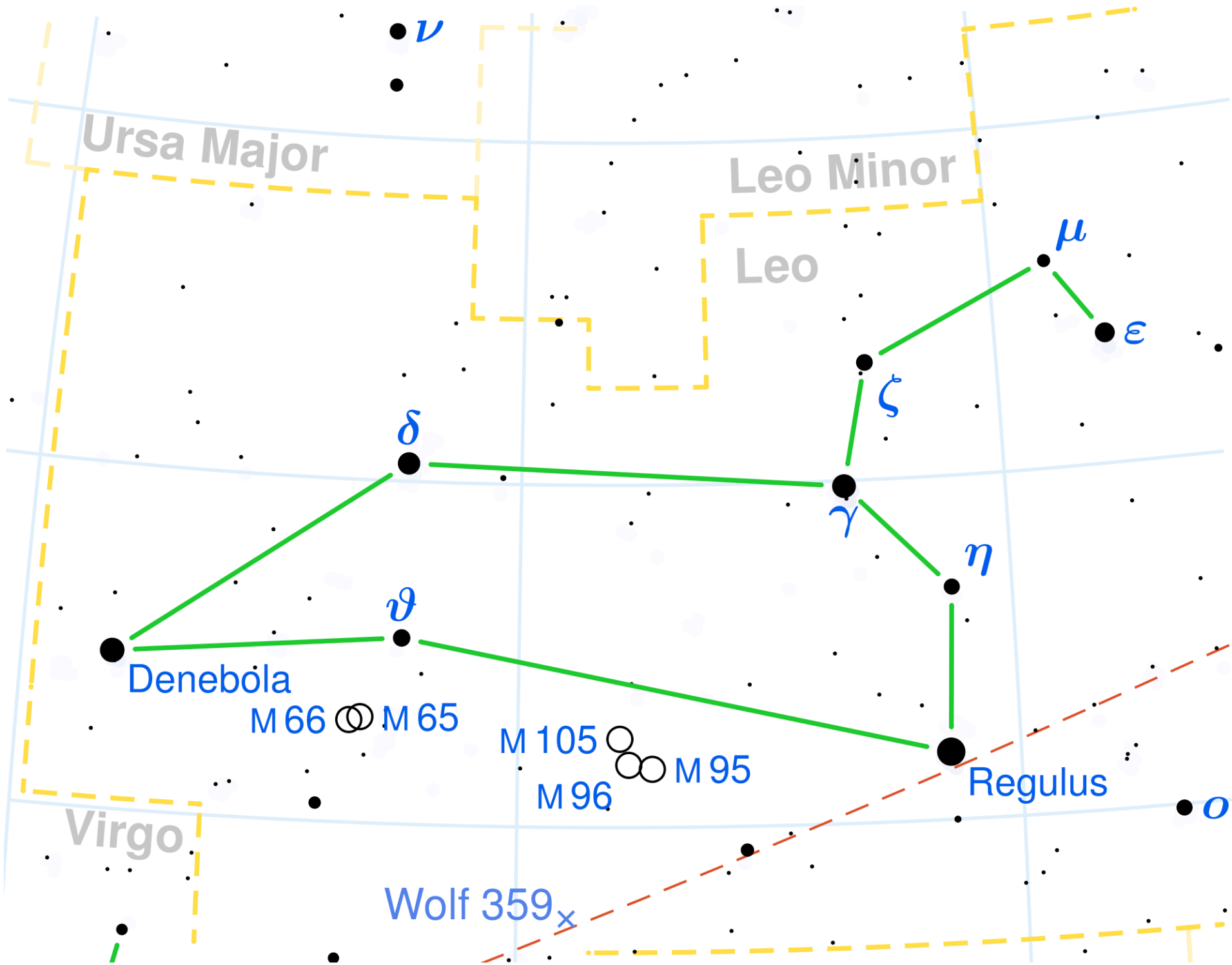
Mass-Radius relation for 190 stars in 95 detached binary systems
whose radii and masses are known to better than 3%



Hertzprung-Russell Diagram



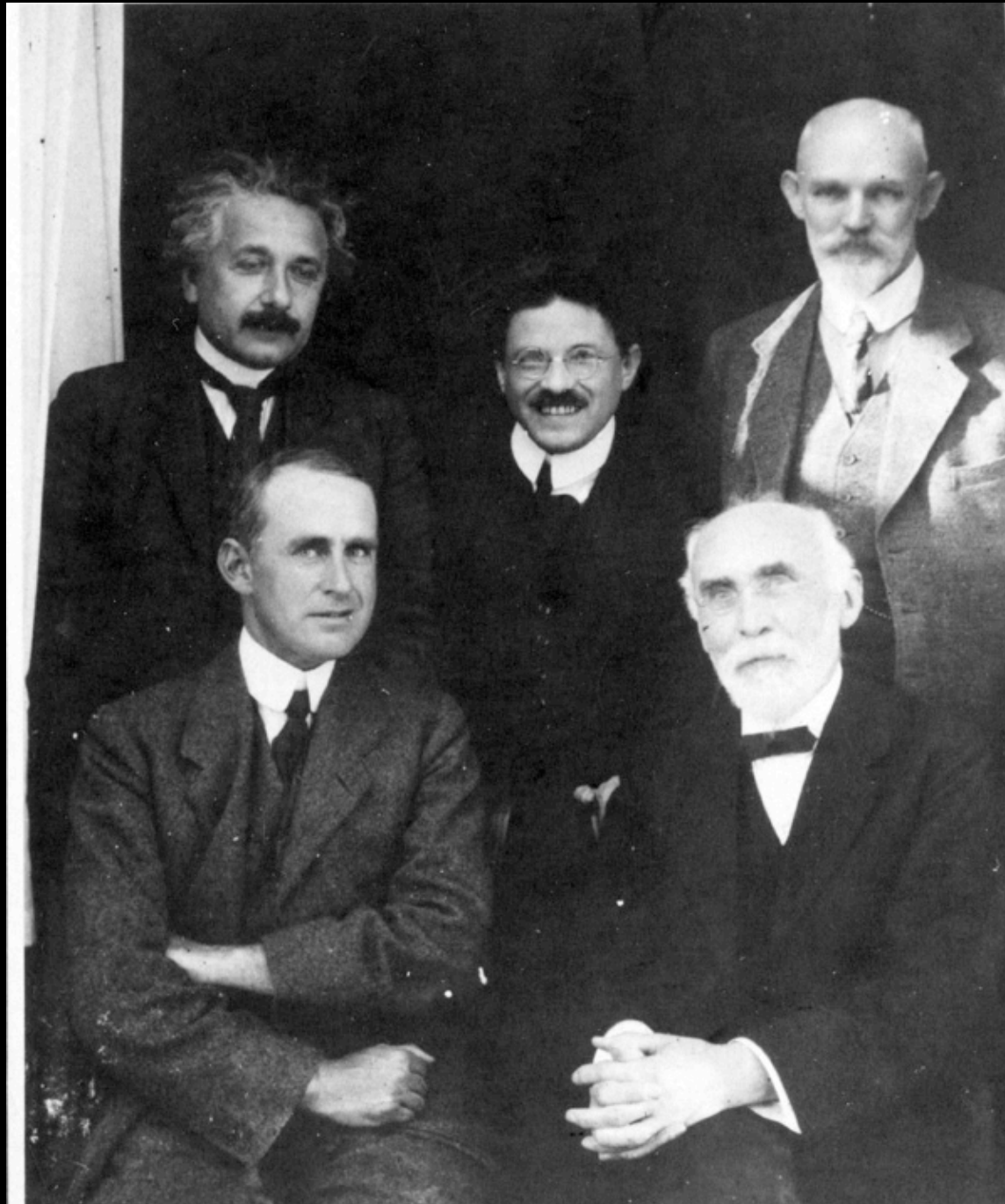






Ehrenfest

Einstein

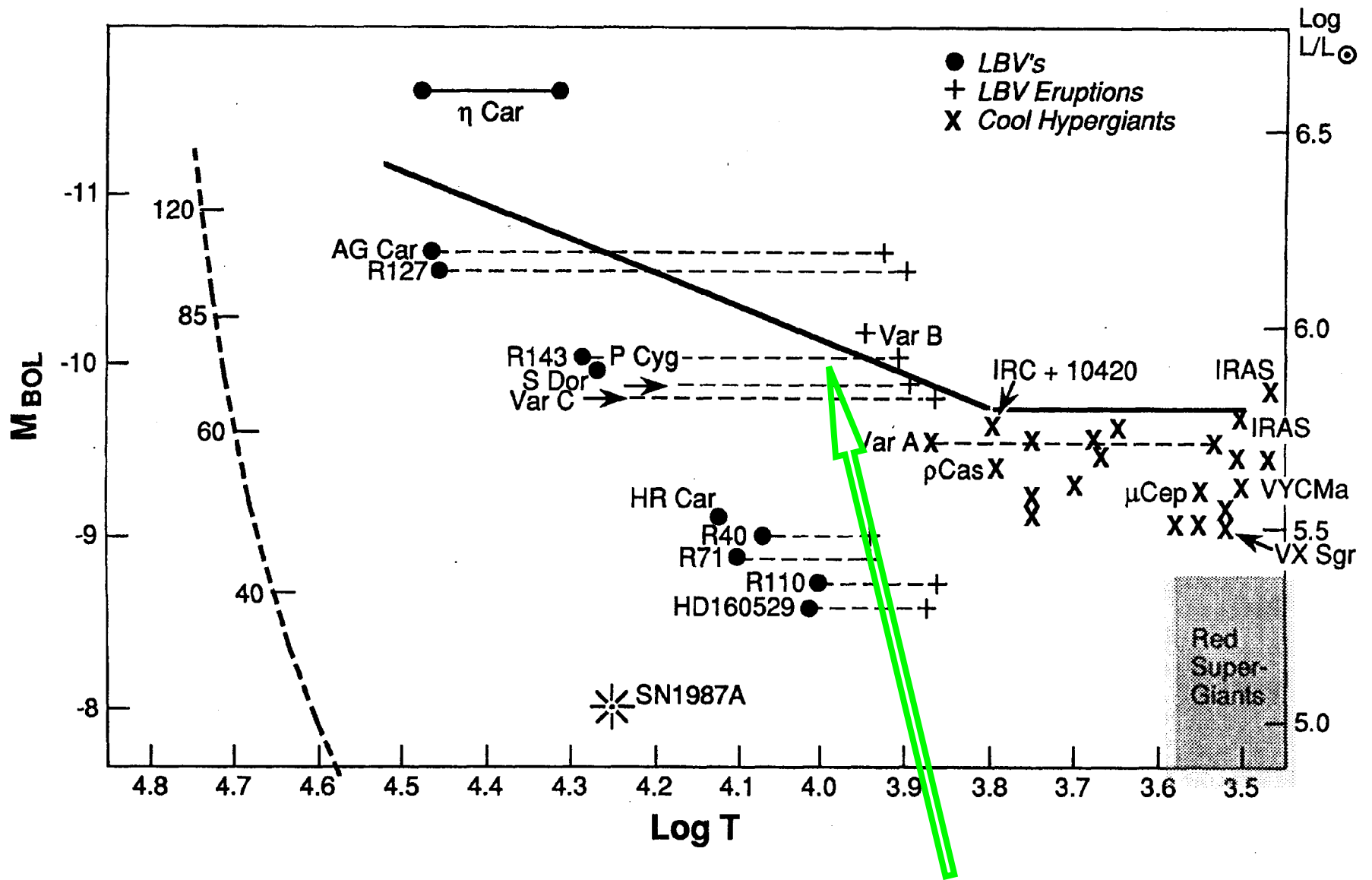


de Sitter

Eddington

Lorentz

Leiden Observatory
September 1923



Humphreys & Davidson limit



THE GALACTIC POST-MS ATMOSPHERIC EDDINGTON LIMIT

