

HOMEWORK SET 21: PLANCK'S RADIATION LAW
 Due Monday, April 8, 2024
 Happy Eclipse!!

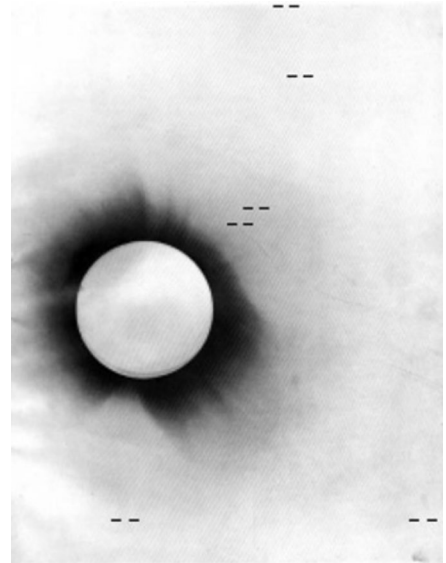
PROBLEMS FROM OR AFTER TZDII¹ AND TREX²

WHEN YOU GET A RESULT, COMMENT ON IT!! DOES IT MAKE SENSE, IS IT INTERESTING, IS IT RIDICULOUS AND INDICATE THAT THE MODEL DOESN'T WORK VERY WELL?

TRex 3.21) As written in TRex.

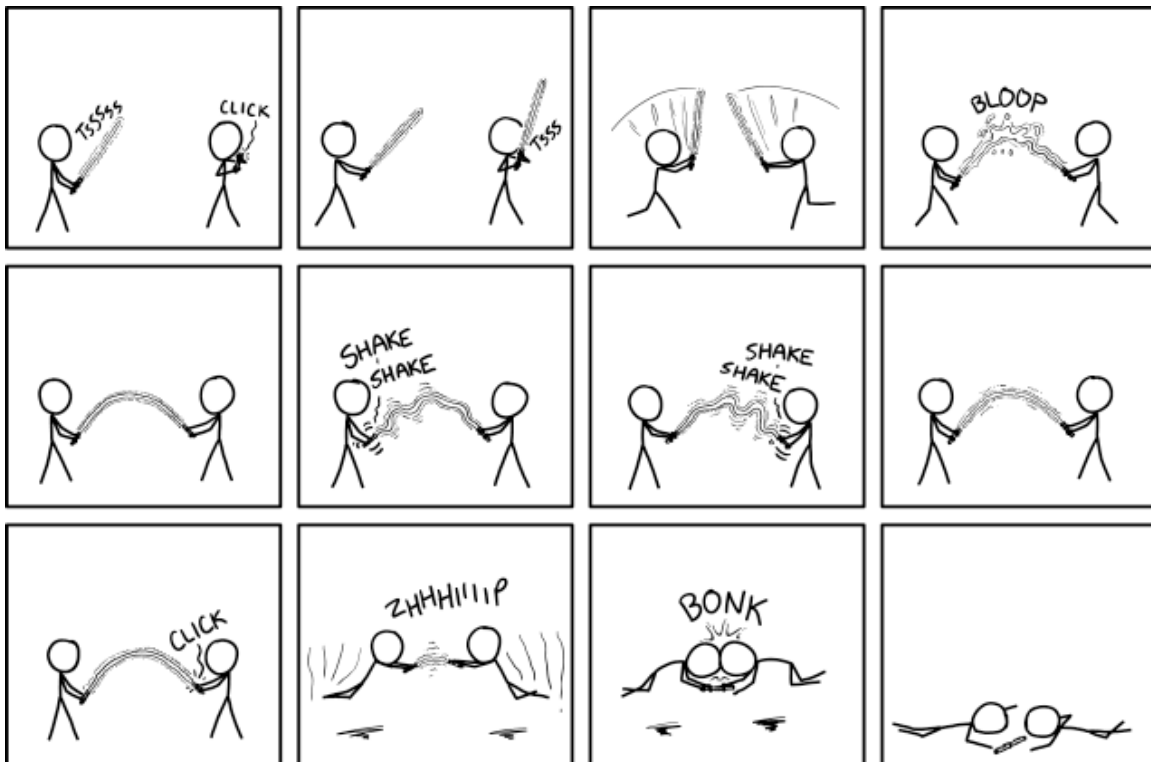
TRex 3.23) As written in TRex.

TRex 3.24) As written in TRex. USE WHATEVER PLOTTING PROGRAM YOU LIKE, BUT DO USE A COMPUTER TO CREATE THE PLOT AND DO NUMERICAL INTEGRATION FOR THE DIFFERENT WAVELENGTH SPANS. IF YOU WANT TO USE MATHEMATICA, COME ASK FOR HELP



Negative of the 1919 total solar eclipse photographed by Arthur Eddington to confirm Einstein's GR theory of gravity bending light. (ESA)

LIGHTSABERS



<https://xkcd.com/2612/>

¹ Taylor, Zafiratos, & Dubson, *Modern Physics for Scientists and Engineers*, 2nd Edition, Pearson, Prentice Hall, 2004

² Thornton and Rex, *Modern Physics for Scientists and Engineers*, 3rd Edition, Cengage Learning, 2013