Obtain apparent magnitude from distance and mass m.

1. estimate Luminosity via mass luminosity relation ([link](https://en.wikipedia.org/wiki/Mass%E2%80%93luminosity_relation))

Source:

Step one returns luminosity in units of solar luminosity.

1. Calculate absolute/bolometric magnitude from Luminosity

Since from 1. is already in units of solar luminosity and with ([link](https://en.wikipedia.org/wiki/Absolute_magnitude)) this simplifies to:

… **but** bolometric means V-Band. So instead of I just use ([link](https://iopscience.iop.org/article/10.3847/1538-4365/aabfdf))?

1. Estimate apparent magnitude from distance and absolute magnitude

Obtain apparent magnitude from flux

Use 0-magnitude flux in K-Band ie and

Units of from photutils output in ph/exposure time? … no clues found in documentation.

Sample average: ~1020310 with default exposure time (=60s?) would suggest

~283,4 ph/s or 20,00 mag