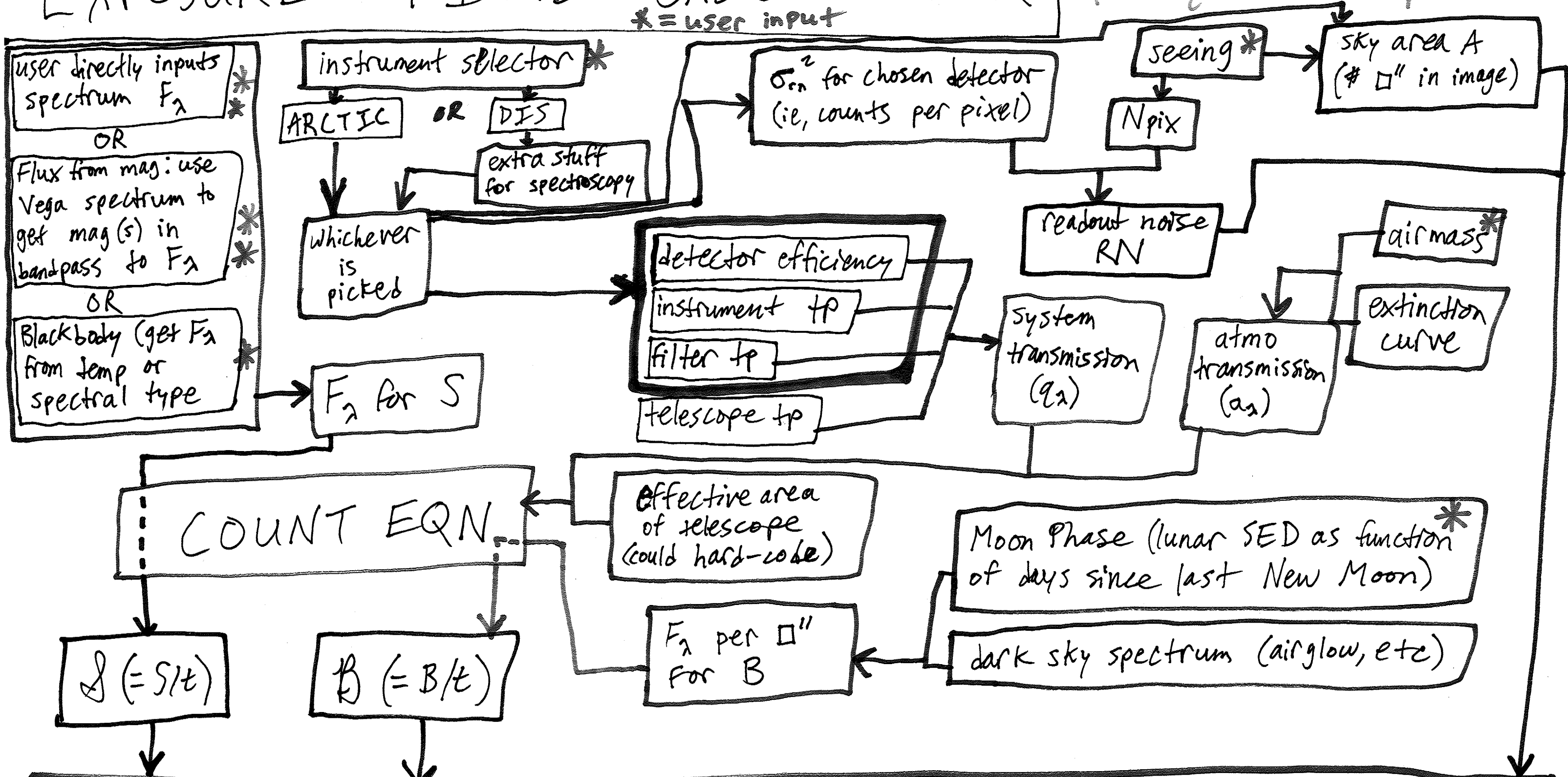


EXPOSURE TIME CALCULATOR

* = requires interpolation
* = user input



$$\frac{S}{N} = \frac{S t^*}{\sqrt{S t + B A t + RN}} \quad \text{OR} \quad t = \frac{\left(\frac{S}{N}\right)^2 S + \left(\frac{S}{N}\right)^2 B A \pm \sqrt{\left(\frac{S}{N}\right)^4 (-S - B A)^2 + 4 \left(\frac{S}{N}\right)^2 S^2 RN}}{2 S^2}$$

if $\frac{S}{N}$ is desired

if t is desired