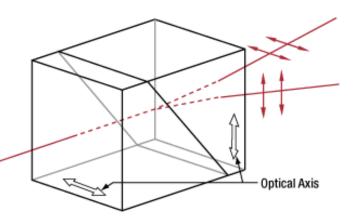
## section4\_Ex.7

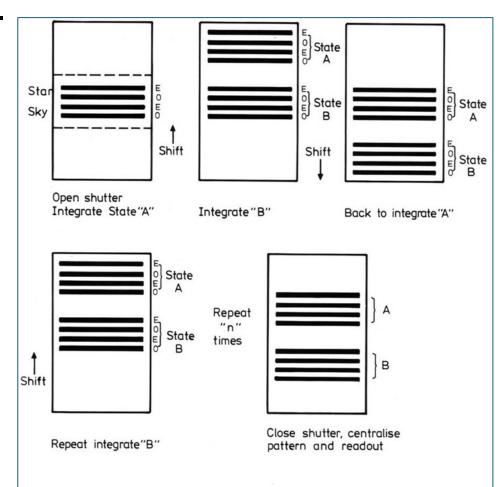
2024/07/05

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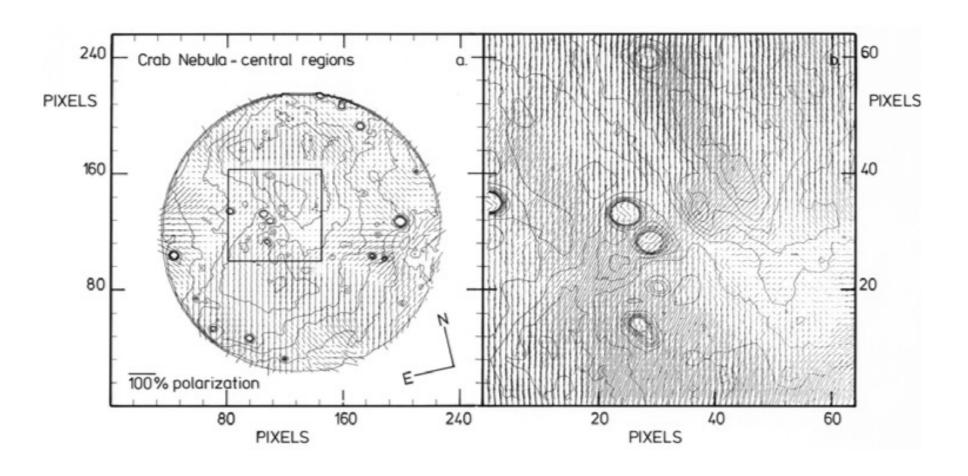
- 7. What instruments could you use to prove that the light from Crab Nebula supernova remmant was due to non-thermal emission from the process called synchrotron radiation?
- Synchrotron radiation has polarization.
  - use polarization modulator.
    - split the light into O and E rays.
    - such as Wollaston prism
  - CCD
    - charge shift
    - measure each component of polarization



Wollaston prism



7. What instruments could you use to prove that the light from Crab Nebula supernova remmant was due to non-thermal emission from the process called synchrotron radiation?



## Reference

• THORLABS

https://www.thorlabs.co.jp/newgrouppage9.cfm?objectgroup\_id =917