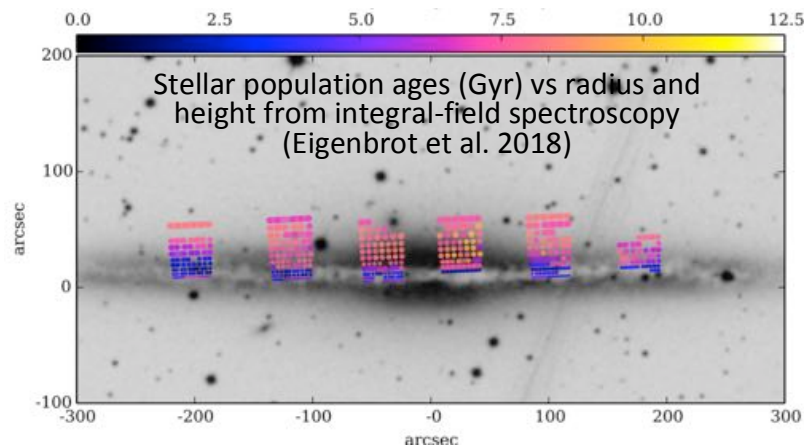


EIGHT FUNDED* RESEARCH POSITIONS - 2019

<http://www.sao.ac.za/~matthew/>

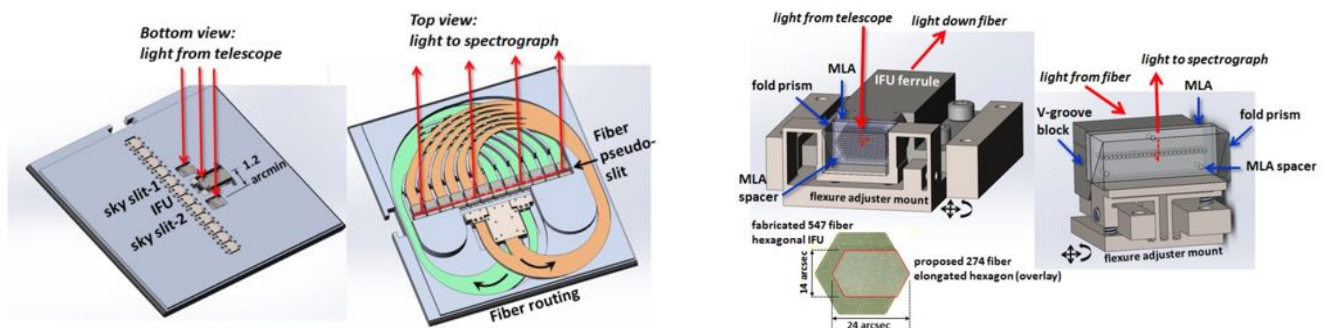
OBSERVATION Sub-GROUP:

1. Honors/bursary project (BSc): finding extreme star-forming galaxies for SALT in the Sloan Digital Sky Survey
2. Honors/bursary project (BSc): finding Milky-Way-like edge-on galaxies in HI deep-fields
3. Masters (MSc, 1 year): HI masses of extreme star-forming galaxies in HI deep-fields
4. Ph.D. (3 years): vertical structure evolution of spiral galaxy disks using optical and near-infrared integral field spectroscopy



INSTRUMENT Sub-GROUP:

5. Honors/bursary projects (BSc or BTech): civil engineering for astronomical instrumentation lab
6. Honors/bursary projects (BSc or BTech): mechanical engineering for fibre-optic test facility
7. Masters (1 year) (MSc or MTech): design and development of fibre-optic test facility
8. Ph.D. (3 years): design, development and commissioning of a fibre slit-mask integral-field unit for SALT prime-focus spectrograph



Fibre slit-mask IFU for SALT (Smith et al. 2016)

***Professor Bershady** is a South African Research Chair (**SARChI**) located at SAAO, and cross-appointed at the University of Cape Town and the University of Wisconsin-Madison. **Inquiries and applications should be sent to mab@sao.az.za.**