SDSS-IV Collaboration Meeting Summary

卢家风

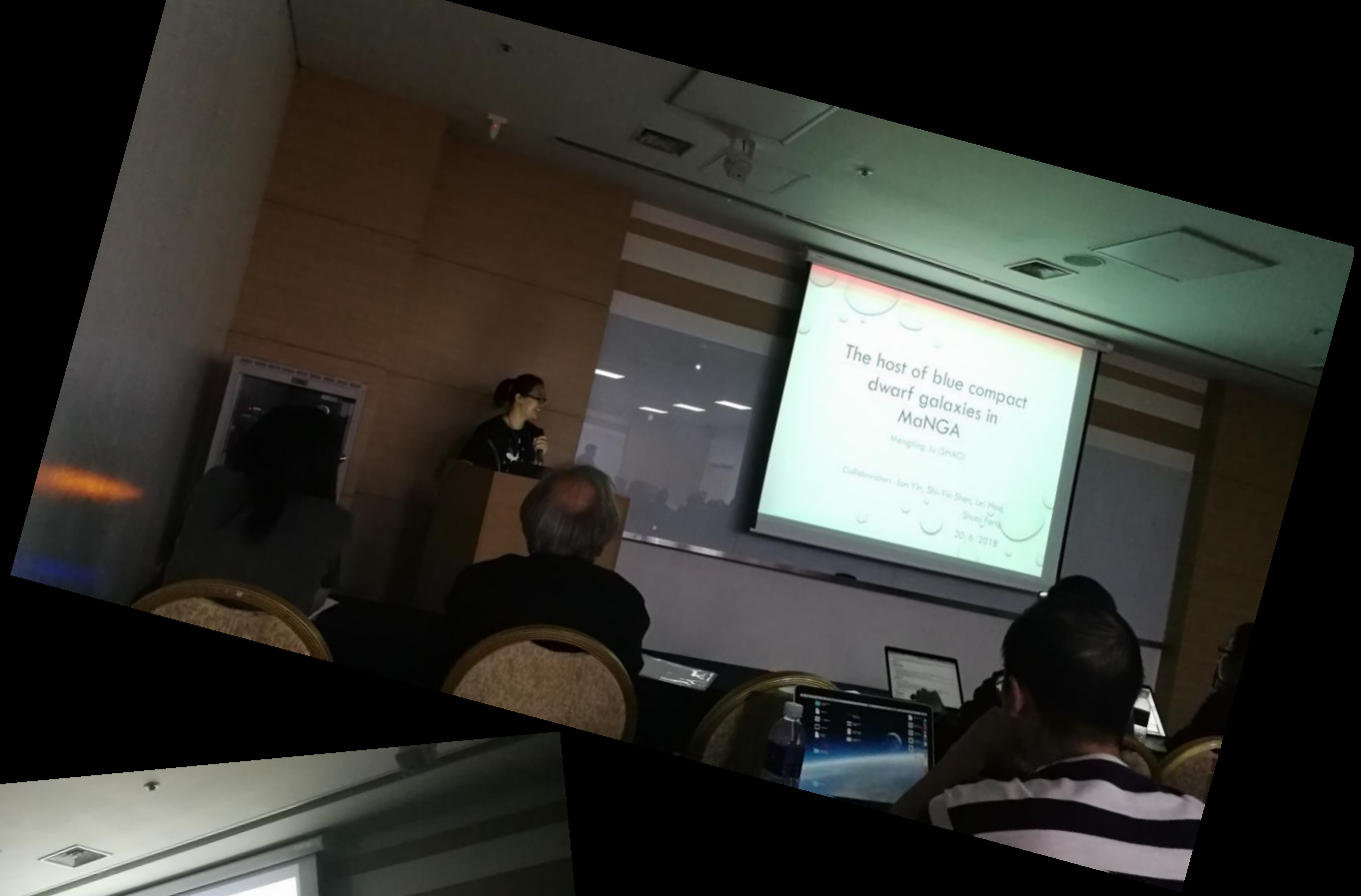
https://trac.sdss.org/wiki/Meetings/2018Collab

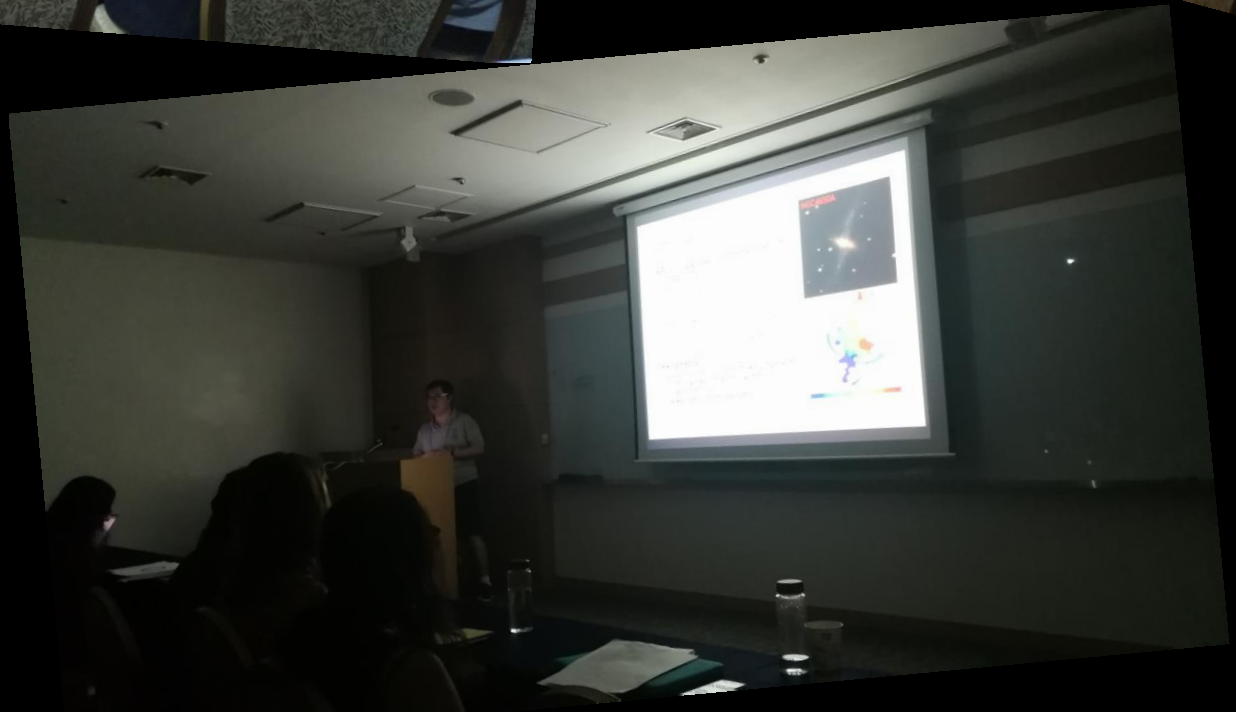
- 与会人数：120人
- 中国：24人
- 上海台：8人

- 报告数量：19/80
- 短报告：3/11
- 9个来自上海台


IV Collaboration Meeting 2018

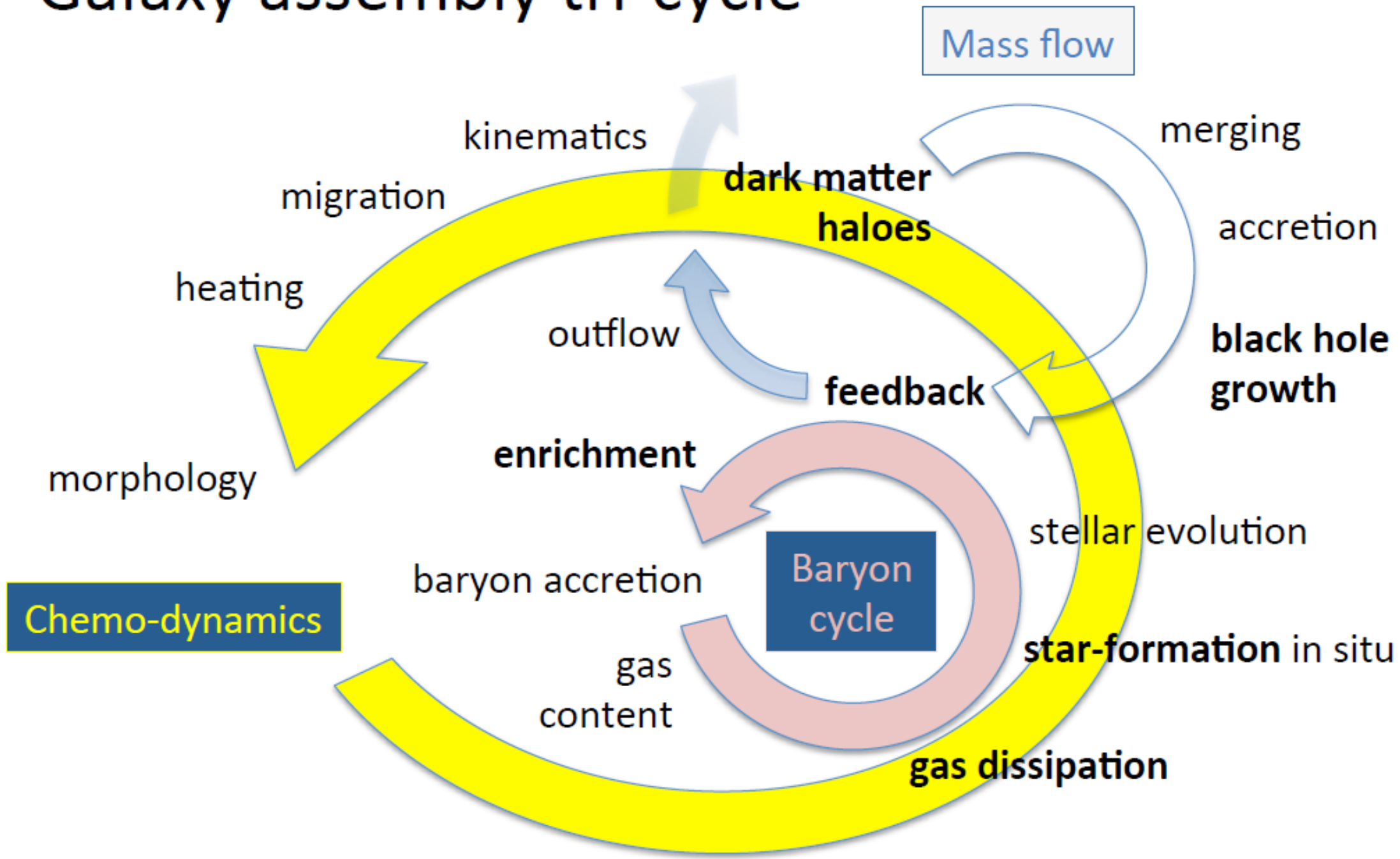

Dust Extinction in
Star Forming Galaxies


The host of blue compact
dwarf galaxies in
MaNGA



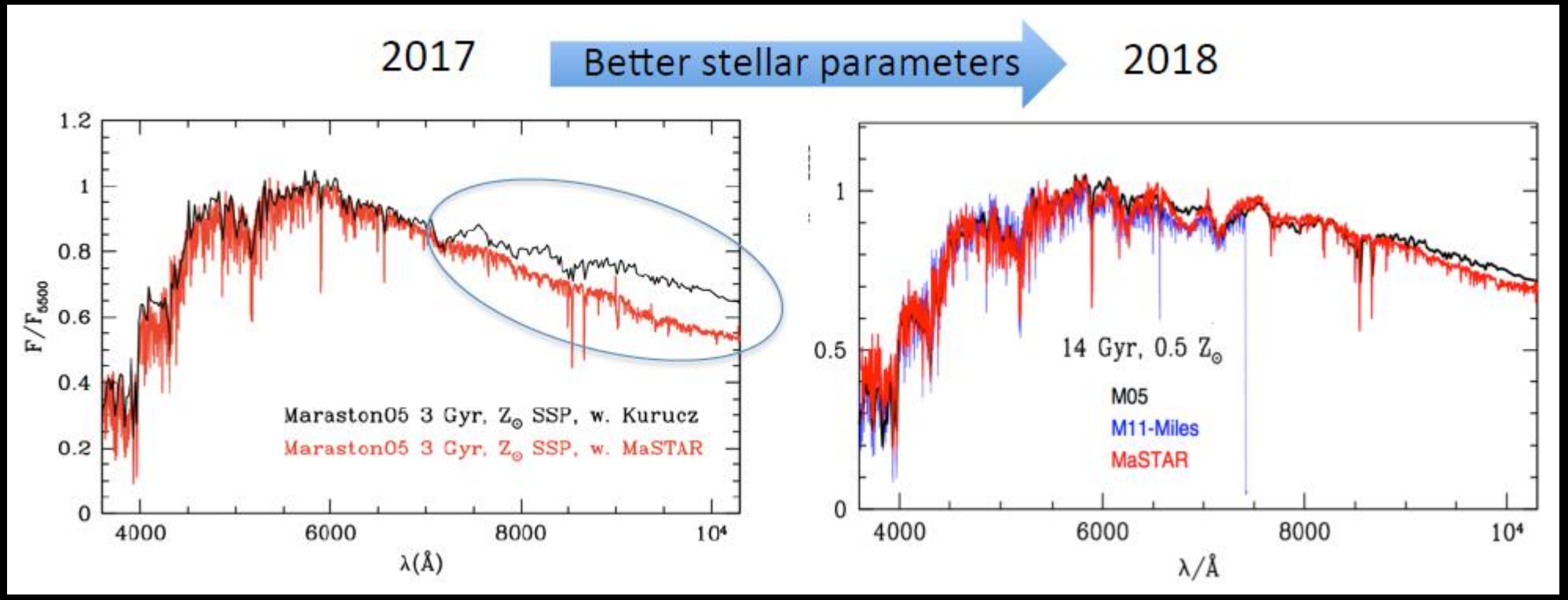
Times	Mon 18th June	Tue 19th June	Wed 20th June	Thur 21st June	Fri 22nd June
9:00-10:30	**Opening Plenary** *Welcome - Status of SDSS-IV - COINS Intro - The Next SDSS - Gravitational Waves in Korea* (details) **Convention Hall A**	**Plenary:** *Secular Galaxy Evolution 101 - APOGEE Overview - APOGEE-2 South: Progress - Constraining the formation of the Milky Way disk with APOGEE, Gaia and the EAGLE simulations - COINS Demographics Survey Update* (details) **Convention Hall A**	**Plenary:** *Galaxy Environments 101 - Gas, dust and stars: a multiwavelength picture of galaxy evolution with MaNGA and ALMA - Collaboration 101: Friendly IV-midables - Lightning Talks* (details) **Convention Hall A**		
10:30-11:00	COFFEE BREAK / Poster Session	COFFEE BREAK / Poster Session	COFFEE BREAK / Poster Session / Data Help Desk / Group Photo		
11:00-12:30	**Plenary:** *Structure Formation 101 - eBOSS Overview - Clustering in the eBOSS ELG sample - Collaboration 101: How to Find your Data - Lightning Talks* (details) **Convention Hall A**	Parallel sessions II *Barred Galaxies (details) **Conference 1** *Clustering/Cosmology (details) **Conference 3**	Parallel Session IV *Gas in and Out of Galaxies (details) **Conference 1** *Galaxy Dynamics (details) **Conference 3** *eBOSS Team Meeting (I) (details) **Conference 5**	MaNGA Splinter Meeting (link) **Conference 1** APOGEE Splinter Meeting (link) **Conference 3**	MaNGA Splinter Meeting (link) **Conference 1** APOGEE Splinter Meeting (link) **Conference 3** Data Hack Morning (link) **Conference 5**
12:30-2:00	COINS Code of Conduct Discussion (**Conference 1**) - LUNCH BREAK	EPO Discussion (**Conference 1**) - LUNCH BREAK	LUNCH BREAK		
2:00-3:30	**Plenary:** *Milky Way Formation 101 - MaNGA Overview - Marvin 101 - Chemical evolution of our Milky Way and external galaxies revealed by APOGEE and MaNGA - Lightning Talks* (details) **Convention Hall A**	**Plenary:** *Simulations 101 - SPIDERS Overview - - Modelling eBOSS Galaxies and Quasars: Techniques, Tools, Products - MaStar Overview - Collaboration 101: How to get involved in EPO* *(details)* ***Convention Hall A***	Parallel Session V *Galaxy Environments and Components (details) **Conference 1** *Exoplanets and the Physics of Stars (details) **Conference 3** *eBOSS Team Meeting (II) (details) **Conference 5**		
3:30-4:00	COFFEE BREAK / Poster Session	COFFEE BREAK / Poster Session / Data Help Desk	COFFEE BREAK / Poster Session		
4:00-5:30	Parallel Session I *The End of Starformation in Galaxies (details) **Conference 1** *The Milky Way as a Galaxy (details) **Conference 3**	Parallel Session III *Stellar Parameter Determination (details) **Conference 1** *Starforming Galaxies and Starformation Histories (details) **Conference 3**	**Closing Plenary**: *Confirming Planets with APOGEE - Rethinking the Distance Scale in the Gaia Era - Astronomy for All, hosting the 31st IAU General Assembly in Busan - Collaboration Meeting Summary* (details) **Convention Hall A**		
Evening	7pm Early Career Scientist (ECS) Dinner 7pm CoCo Dinner	7pm MaNGA Dinner	⇨Conference Dinner, Diamond Hall, The Plaza Seoul (from 18:30)		

- Galaxy assembly tri-cycle



恒星参数测定

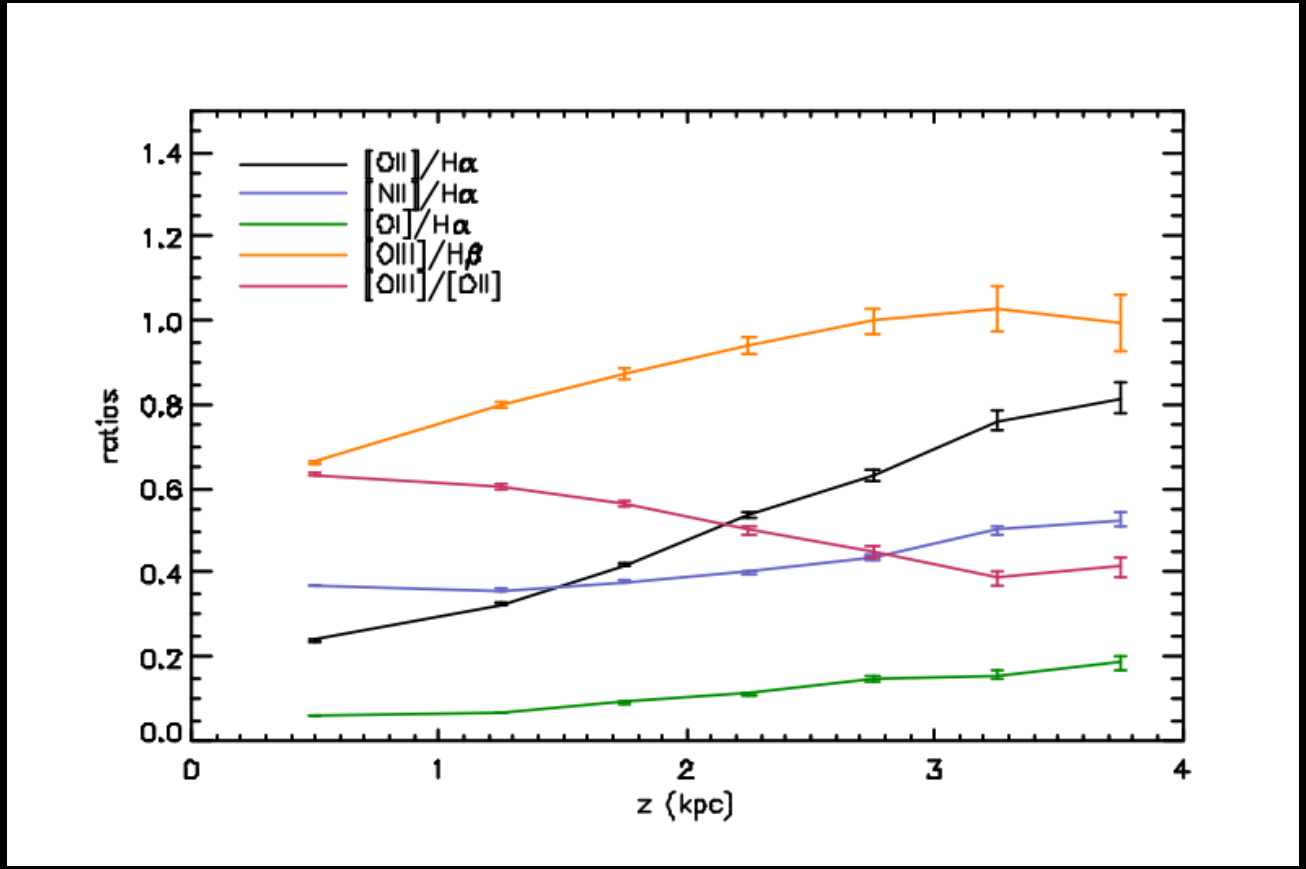
- MaStar
- *通过光度约束全谱拟合*
- 需要改进红化改正



星系中的气体

Amy M. Jones

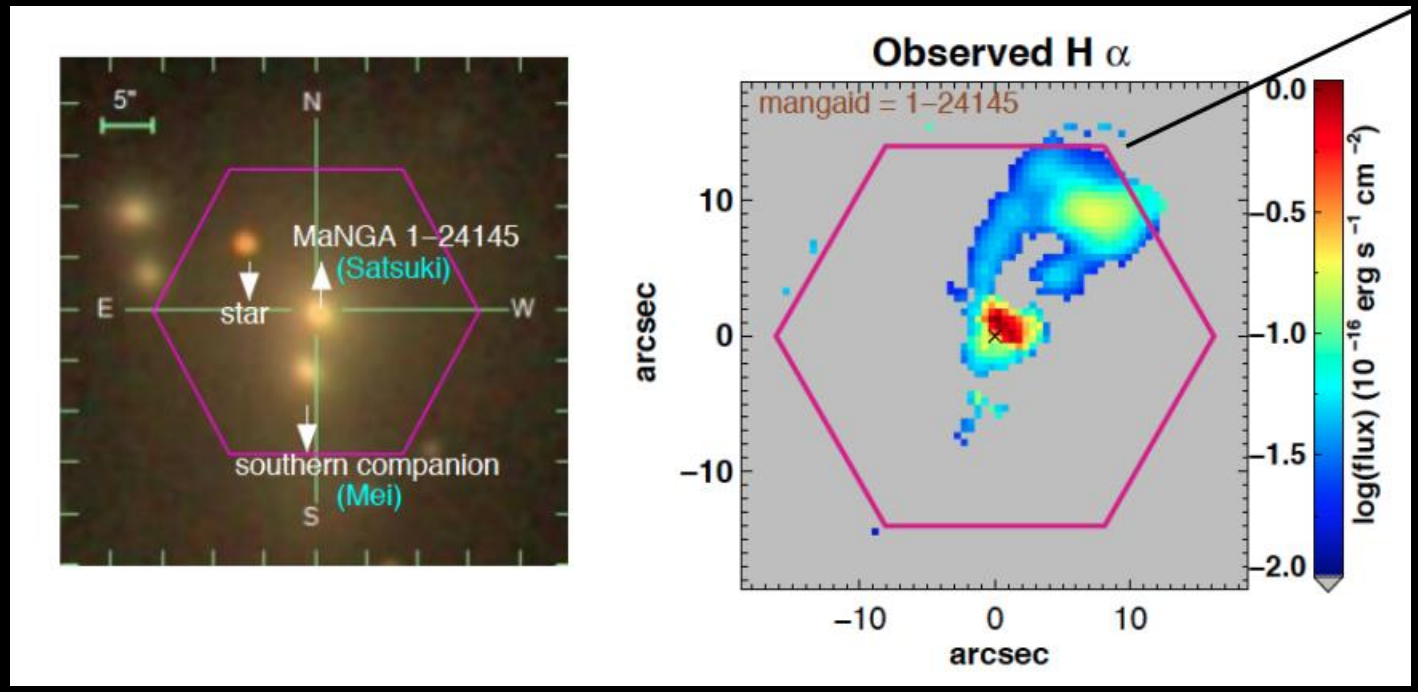
- 不同线强比和半径关系
  - Temperature OII/Ha
  - Metallicity NII/Ha
  - Ionization (H) OI/Ha
  - Photonization OIII/Hb
  - Hardness OIII/OII



星系外的气体

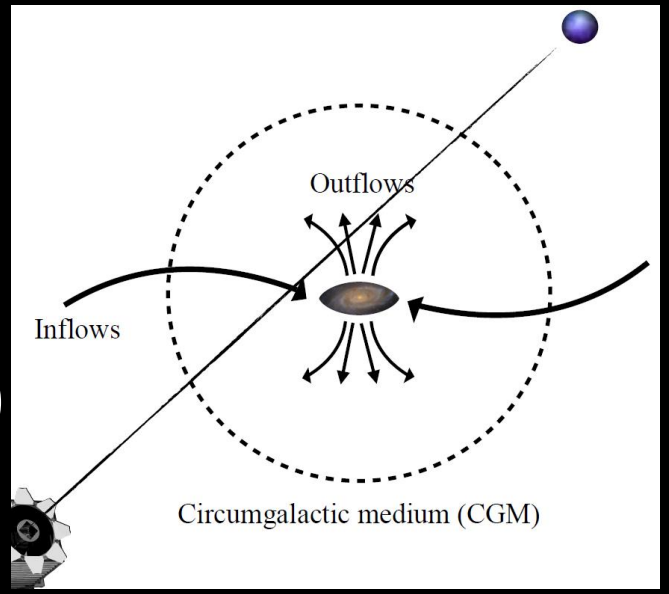
- Ha blobs（Xihan Ji）
  - 动力学显示曾经和宿主星系有联系
  - 非AGN成分
  - 低恒星形成

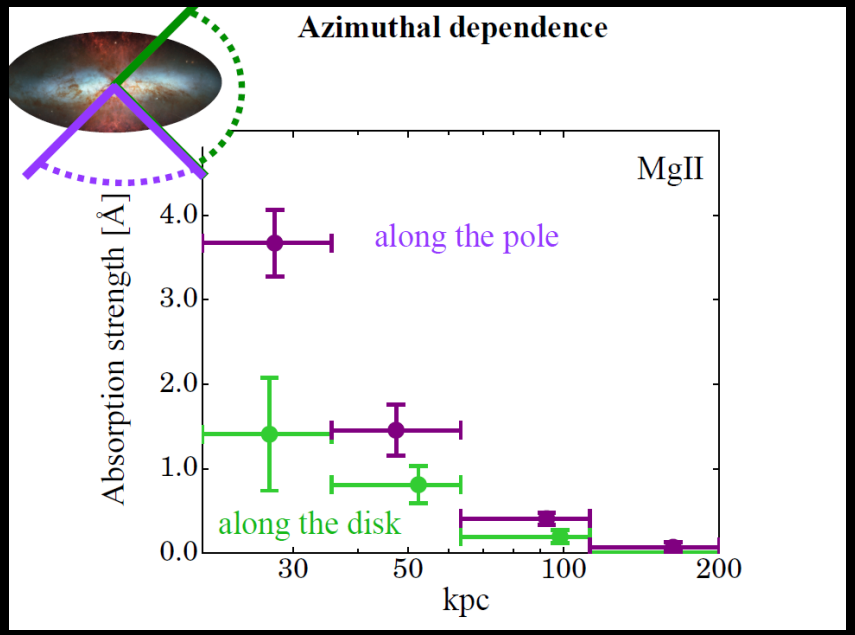
- 产生于潮汐作用或并合

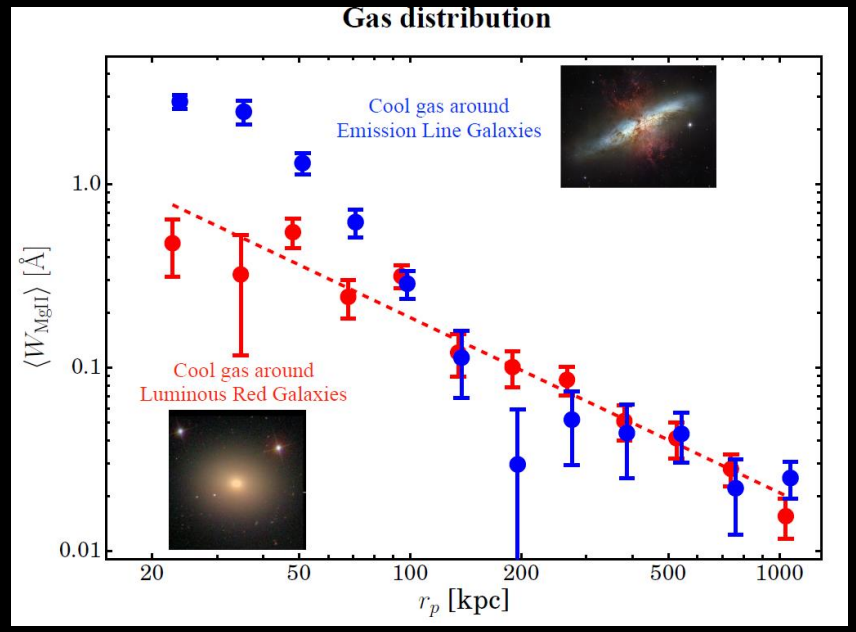


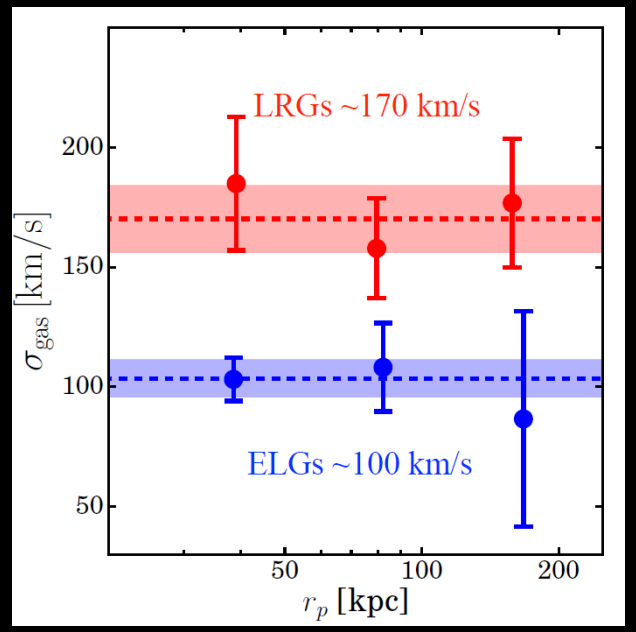
星系外气体

- 通过背景源探测星系周围冷气体（Ting-Wen Lan）





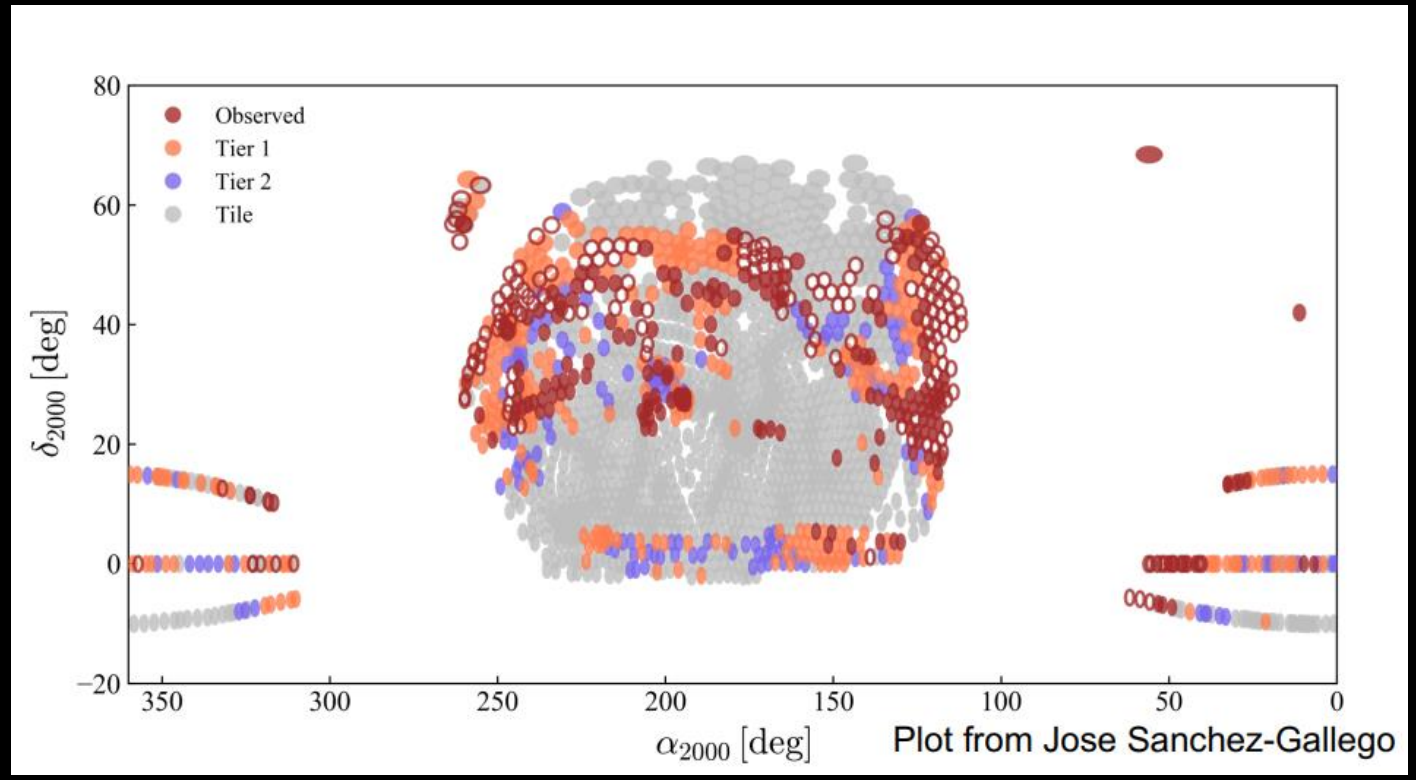




HI巡天：*HI-MaNGA*

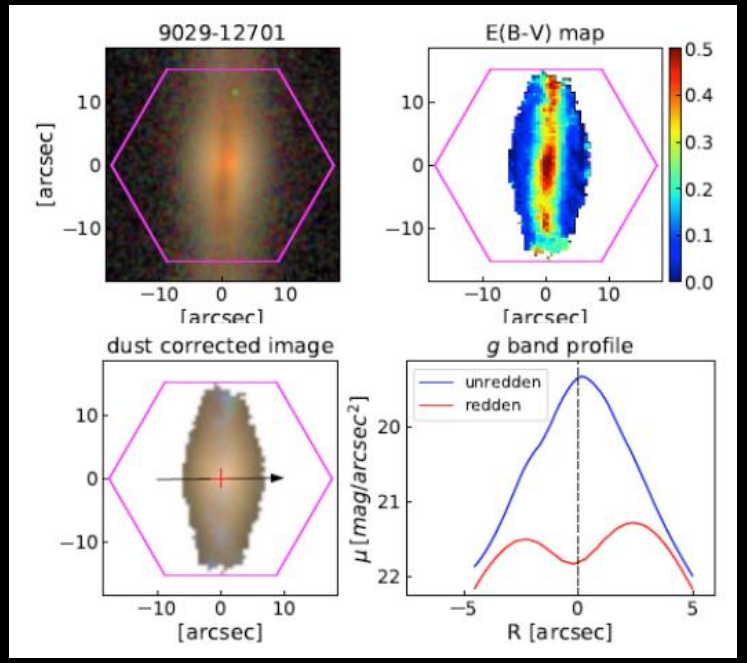
- HI动力学测量半径大
- HI可以用来测量冷气体质量
- 直接追踪冷气体吸积
- 能揭示并合和强相互作用历史
- 测量潮汐尾动力学
- 揭示环境影响机制
- 和quench相关

- GBT

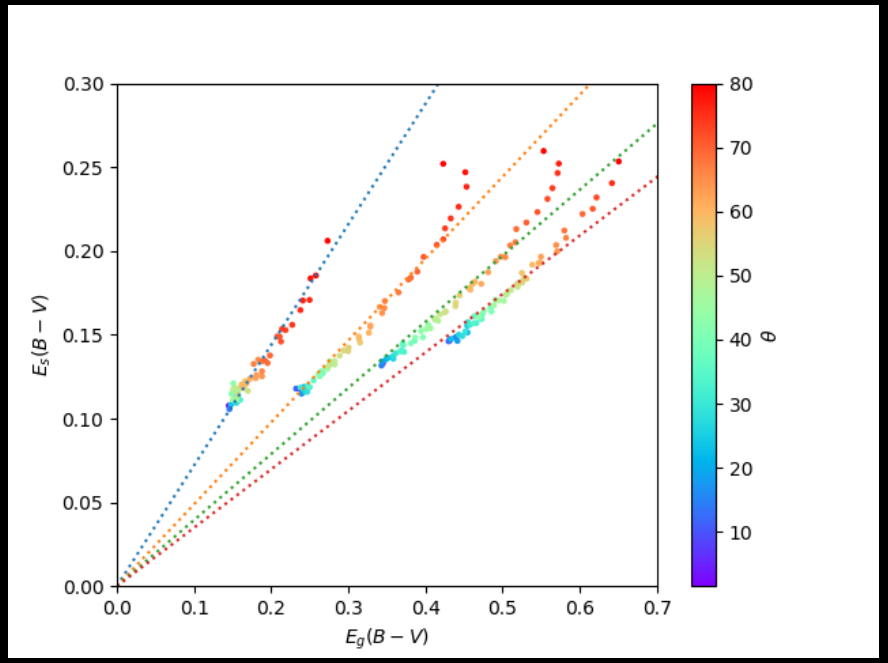


恒星形成星系中的尘埃消光

- 通过类似滤波方法，单独拿出吸收线/发射线成分拟合星族，再得出消光（Niu Li）



- 消光和倾角金属丰度的关系（Jiafeng Lu）



恒星形成星系中的共振线（尘埃吸收）

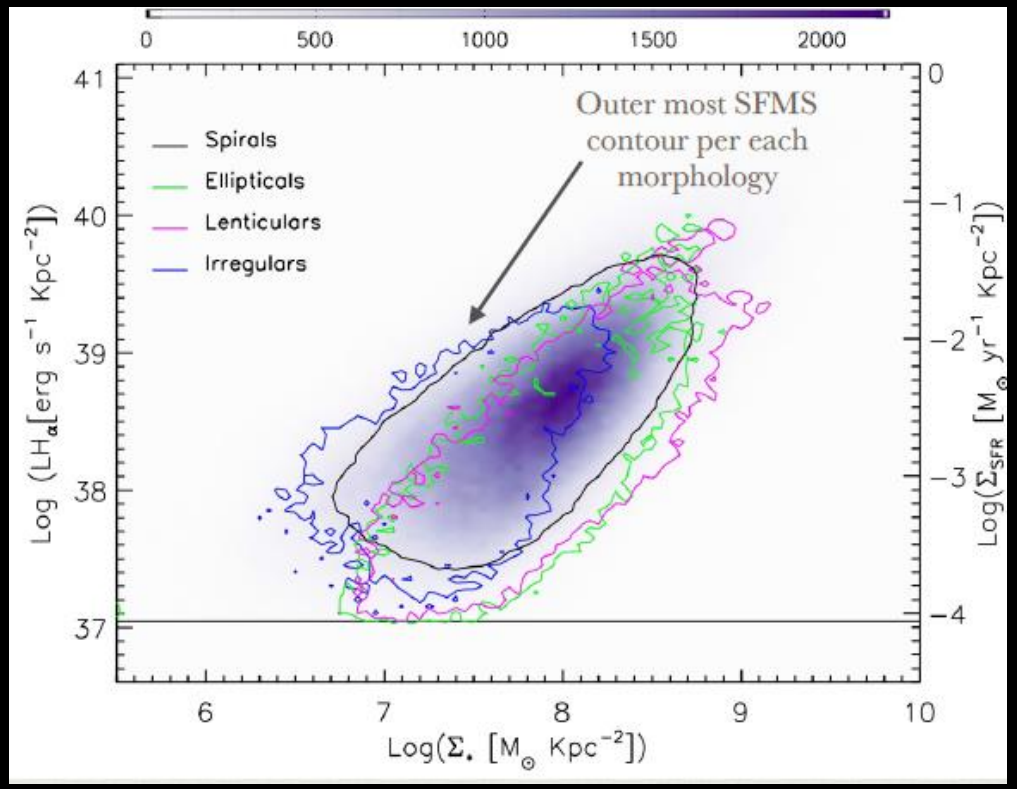
Camilo Machuca

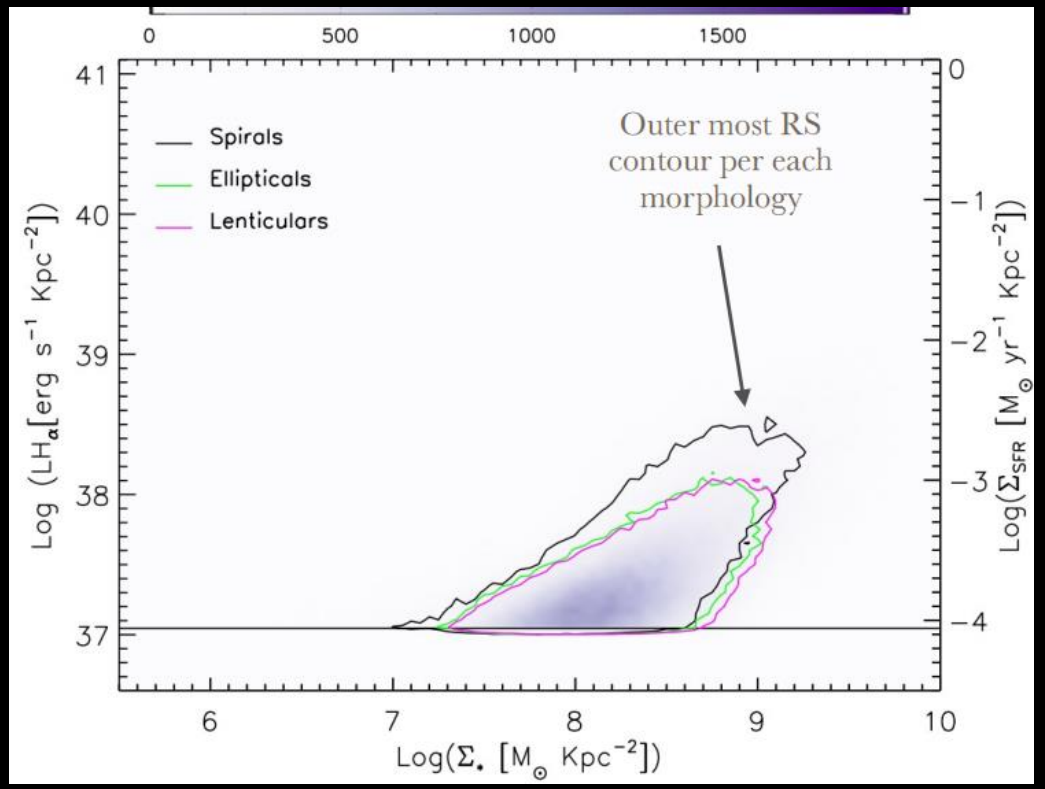
- 星际弥漫冷气体，吸收光子，由基态到激发态，形成吸收线，Ca II →年龄(D4000), Na I→Na 丰度

- Na D
  - 不同视线方向线强不同，经过路径区别
  - 同一星系不同位置线宽不同：速度弥散
- Ca H&K 没有区别
  - D4000
  - 利用该特征可以估计年龄

恒星形成星系

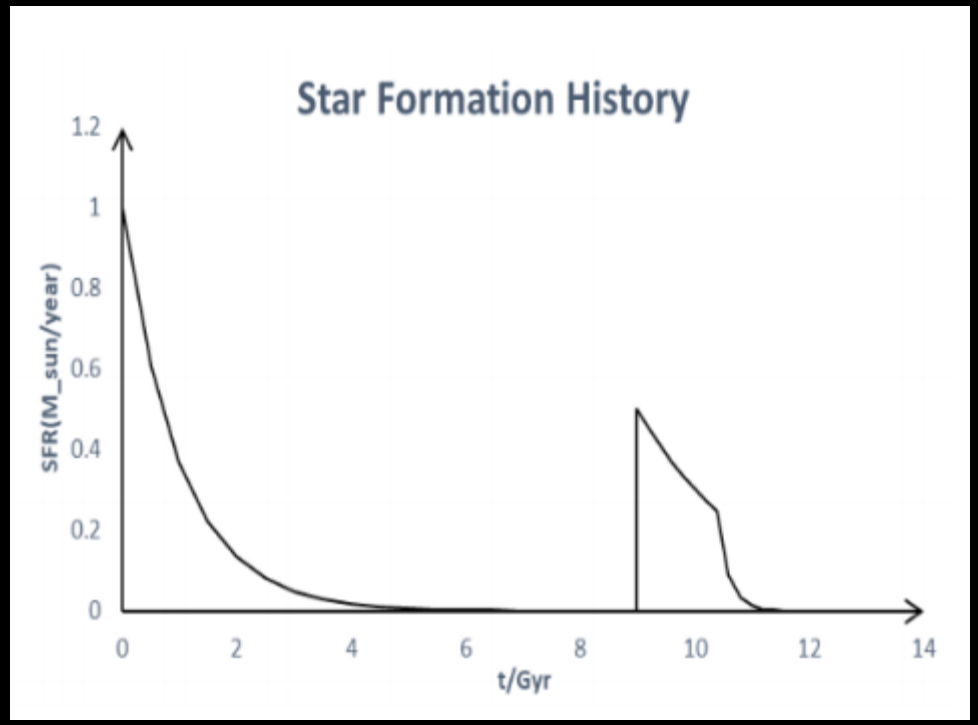
- 不同形态星系主序的差异（Mariana Cano-Diaz）





后星爆星系

- 后星爆星系的恒星形成历史可以用双指数拟合（Zhuo Cheng）



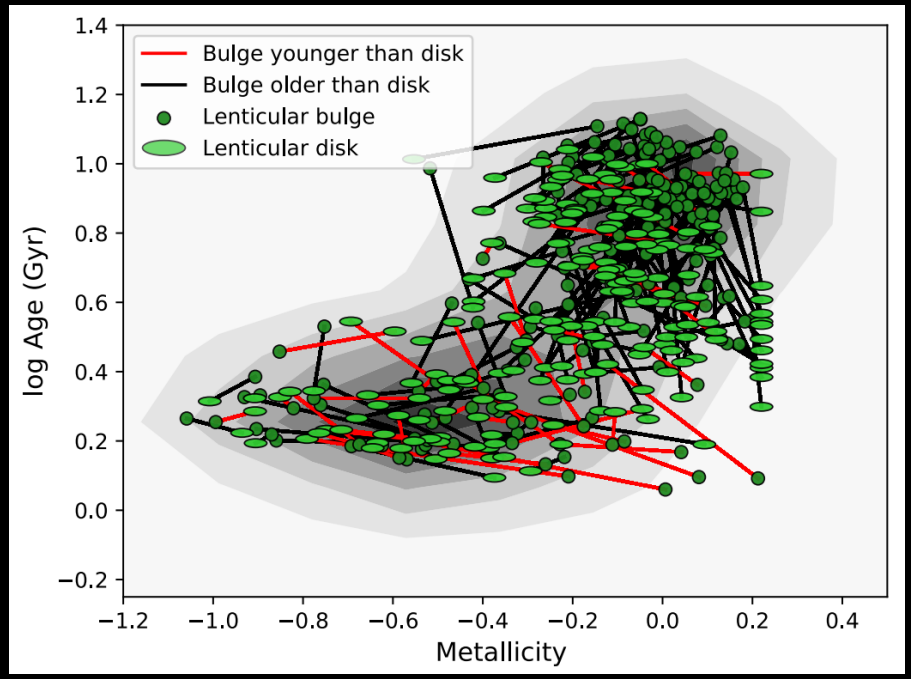
中心后星爆和环后星爆（Yanmei Chen）

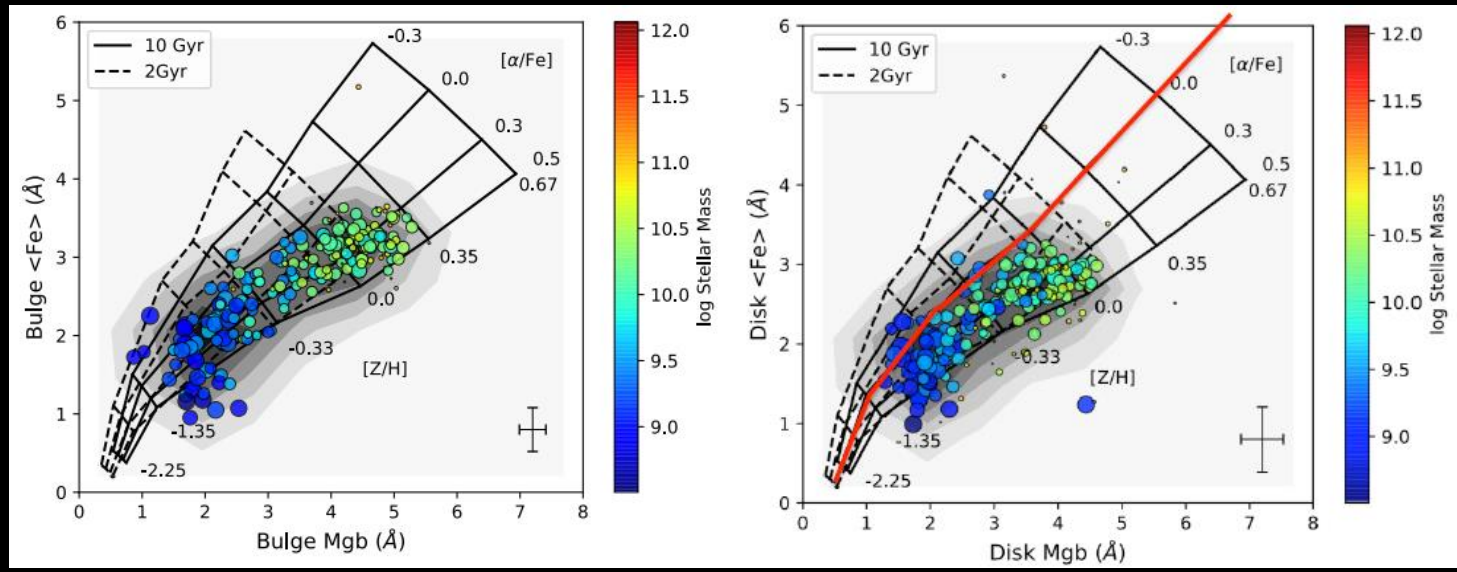
- 中心后星爆和环后星爆中心有相似的中心光度占比，且外围更年轻
- 中心后星爆位于过渡区
- 环后星爆位于恒星形成主序

透镜星系

Amelia Fraser-McKelvie

- 大质量，富金属，星族老（quenched）星系: 核比盘老（quench？并合驱动）
- 小质量，贫金属，星族年轻（恒星形成）星系：核比盘年轻，气体内落
- S0中高a/Fe星占主导





a/Fe与银河系

- 星系团中星系有高a/Fe
- 尤其是靠近中心的卫星星系
- 早期形成星系有高a/Fe

- 银河系的a/Fe相对来说不高

- 银河系可能是一个特殊的星系？