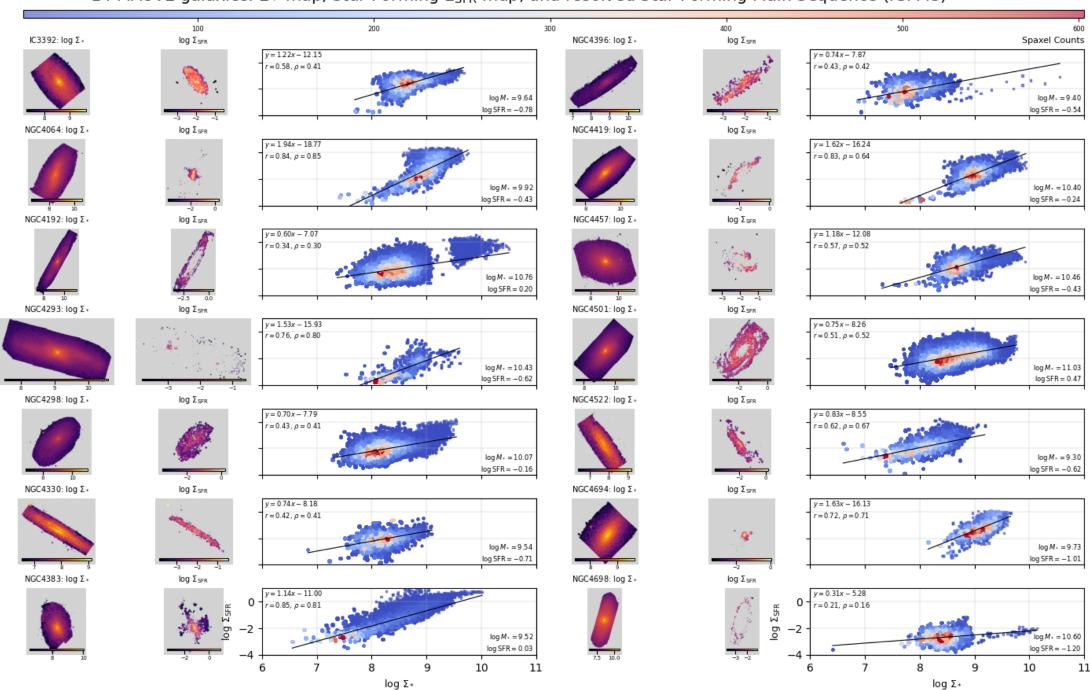
14 MAUVE galaxies: Σ_* map, Star-Forming Σ_{SFR} map, and resolved Star-Forming Main Sequence (rSFMS)



14 MAUVE galaxies: Spatially-resolved Σ_* vs Σ_{SFR} with Fitting Statistics Combined: All SF spaxels from 14 MAUVE galaxies ¹ TIC3392 (17532) NGC4064 (10576) 500 1000 1500 2000 2500 Slope: 1.22±0.01 Intercept: -12.15±0.11 Pearson r: 0.58 Scatter σ : 0.47 Slope: 1.94±0.01 Intercept: -18.77±0.11 Pearson r: 0.84 Scatter σ: 0.52 Slope: 0.63 ± 0.00 1 NGC4192 (234204) ¹ NGC4293 (7137) Intercept: -7.24 ± 0.01 Pearson r: 0.48 Residual o: 0.50 dex Slope: 1.53±0.02 ercept: -15.93±0.13 Pearson r: 0.76 Scatter σ: 0.42 Total SF spaxels: 1,062,216 ¹ NGC4298 (172804) NGC4330 (40401) Slope: 0.74±0.01 ntercept: -8.18±0.07 Pearson r: 0.42 Scatter o: 0.47 Slope: 0.70±0.00 ercept: -7.79±0.03 kpc ¹ NGC4396 (70772) NGC4383 (45652) log Σ_{SFR} (Slope: 1.14±0.00 ntercept: -11.00±0.03 Pearson r: 0.85 Scatter σ: 0.41 Z 1 NGC4457 (17970) SFR NGC4419 (14187) log Slope: 1.62±0.01 Intercept: -16.24±0.08 Pearson r: 0.8 Intercept: -12.08±0.11 Pearson r: 0.57 Scatter σ: 0.48 1 NGC4522 (35550) 1 NGC4501 (370311) -3Slope: 0.83±0.01 Intercept: -8.55±0.04 Pearson r: 0.62 Scatter σ: 0.44 ¹ NGC4694 (2516) NGC4698 (22604) 10 11 $\log \Sigma_* (M_{\odot} \text{ kpc}^{-2})$

 $\log \Sigma_* (M_{\odot} \text{ kpc}^{-2})$

Galaxy	Slope	Intercept	Pearson R	Scatter σ
lame	±Error	±Error	Coeff.	(dex)
 C3392	1.22±0.01	-12.15±0.11	0.58	0.47
IGC4064	1.94±0.01	-18.77±0.11	0.84	0.52
IGC4192	0.60±0.00	-7.07±0.03	0.34	0.49
IGC4293	1.53±0.02	-15.93±0.13	0.76	0.42
IGC4298	0.70±0.00	-7.79±0.03	0.43	0.44
IGC4330	0.74±0.01	-8.18±0.07	0.42	0.47
IGC4383	1.14±0.00	-11.00±0.03	0.85	0.41
IGC4396	0.74±0.01	-7.87±0.05	0.43	0.45
NGC4419	1.62±0.01	-16.24±0.08	0.83	0.45
IGC4457	1.18±0.01	-12.08±0.11	0.57	0.48
IGC4501	0.75±0.00	-8.26±0.02	0.51	0.44
IGC4522	0.83±0.01	-8.55±0.04	0.62	0.44
GC4694	1.63±0.03	-16.13±0.29	0.72	0.42
GC4698	0.31±0.01	-5.28±0.08	0.21	0.40

Relation	Reference	β	а	r _c	$\sigma_{ m obs}$	$\sigma_{\rm exp}$	# galaxies	# SFA/S
rSFMS	EDGE	-10.10 ± 0.22	1.02 ± 0.16	0.68	0.266	0.190	126	12667
	CALIFA	-10.27 ± 0.22	1.01 ± 0.15	0.85	0.244	0.192	941	533
	APEX	-9.78 ± 0.30	0.74 ± 0.21	0.76	0.226	0.211	512	251
	Lin et al. (2019)	-11.68 ± 0.11	1.19 ± 0.01		0.25		14	5383*
	Cano-Díaz et al. (2019)	-10.48 ± 0.69	0.94 ± 0.08	0.62	0.27		2737	~500K
	Sánchez et al. (2020)	-10.35 ± 0.03	0.98 ± 0.02	0.96	0.17		1512	~3M
	Ellison et al. (2021a)	-10.07 ± 1.44	1.03 ± 0.17	0.57	0.28- 0.39		28	~1503

COMBINED FITTING STATISTICS - ALL SF SPAXELS FROM 14 GALAXIES

Total SF spaxels: 1,062,216

Slope: 0.63 ± 0.00

Intercept: -7.24 ± 0.01

Pearson correlation coefficient: 0.48 Standard deviation of residuals: 0.50 dex

Reference spatial scale $\alpha_{\rm rMGMS}$ $\alpha_{\rm rSFMS}$ $\alpha_{
m rKS}$ Sánchez et al. (2021) 1.01 ± 0.015 0.95 ± 0.21 0.93 ± 0.18 ~kpc Ellison et al. (2021) 0.68 ± 0.01 0.86 ± 0.01 0.73 ± 0.01 ~kpc Barrera-Ballesteros et al. (2021a) 0.92 0.54 $\sim 2 \,\mathrm{kpc}$ 0.83 ± 0.12 Morselli et al. (2020) 0.74 ± 0.25 0.94 ± 0.29 ~500 pc 1.19 ± 0.01 1.05 ± 0.01 Lin et al. (2019) 1.1 ± 0.01 ~kpc Dey et al. (2019) 1.0 ± 0.1 ~kpc 0.72 ± 0.04 Medling et al. (2018) ~kpc Abdurro'uf & Akiyama (2017) 0.99 ~kpc Hsieh et al. (2017) 0.715 ± 0.001 ~kpc Cano-Díaz et al. (2016) 0.72 ± 0.04 ~kpc