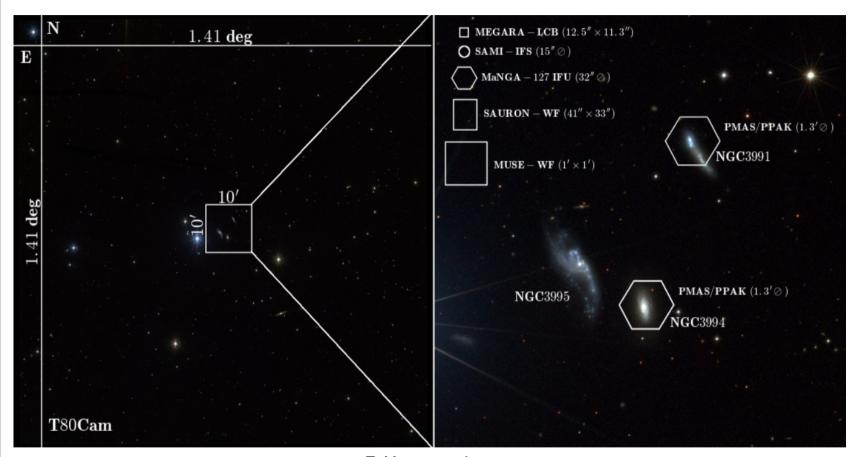
SFR science cases with J-PLUS

J-PLUS

VO applications



FoV comparison

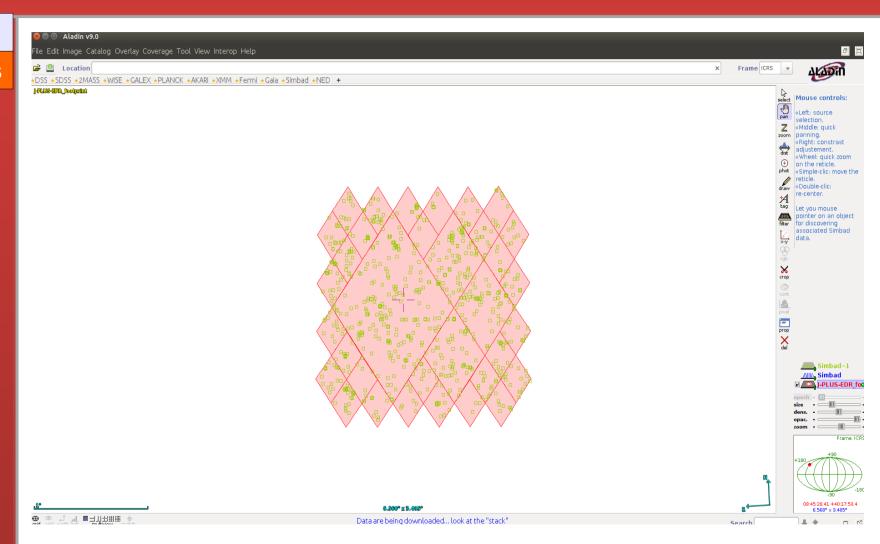
Wide **field of view** + large contigous **area**: Entire **extent** of the galaxies, **environment** as a variable, large **statistical** sample.

Major restriction: lack of spectral resolution

J-PLUS

- We need a huge amount of external data:
 - Names, Positions, Redshift, Distances, Morphology, Environment, Presence of an AGN ... SIMBAD
- We can use the VO tools, two different approaches:
 - Load the coverage map of the survey in Aladin, load SIMBAD and perform a filter of SIMBAD with the coverage map.

J-PLUS



J-PLUS

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 - Load the coverage map of the survey in Aladin, load SIMBAD and perform a filter of SIMBAD with the coverage map. We should then filter by object type, redshift ...
 - Perform an ADQL Query with topcat in the SIMBAD basic table.

J-PLUS

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- We can use the VO tools, two different approaches:
 - Load the coverage map of the survey in Aladin, load SIMBAD and perform a filter of SIMBAD with the coverage map. We should then filter by object type, redshift ...
 - Perform an ADQL Query with topcat in the SIMBAD basic table.

```
Telectroid,main_id,RA,DEC,rvz_redshift, galdim_angle,galdim_majaxis,galdim_minaxis,morph_type FROM basic WHERE rvz_redshift<0.015 AND otype='galaxy'
```

J-PLUS

VO applications

	1	Table B	rowser for	2: TAP_2_basic								
2 2 25:555 VGC 12182 341,40793 73,16202 0.00497 40 0.847 0.728 S 3 8302087 OSS 101841,493-004458.9 212,06222 0.7407 0.00015 4 420471 COSMOS 095810.37-013328.0 149,54321 1,55778 0.01 5 1012219 S0551153001.55-06255.0 222,58016 6.45962 0.00042 9 1012219 S0551153001.55-06255.0 222,58016 6.45962 0.00020 9 11412245 VGC 12510 349,91377 8,26498 0.0189 35 0.473 0.341 dGs 0.00020 10 646451 00005 033212.75-274440.3 53,08856 27,76912 0.002 11 646298 00005 033157.21-274126.6 52,98836 27,769071 0.002 12 1400170 VGC 12547 346,30042 18,80778 0.00455 90 1, 0,8 1 13 1470127 VGC 11698 322,76999 18,17749 0.00565 15 1,05 0,538 0 14 146071 VGC 12513 344,44004 18,9655 0.00653 38 1,05 0,538 0 15 11496685 0.00411473290.3100027 212,6623 0.74025 0.00023 38 1,05 0.358 1 16 14 146071 VGC 12503 349,44004 18,9655 0.00653 38 1,05 0.358 1 17 409747 0.0051 114033.0802122.3 7,6206 1,17625 0.00653 38 1,05 0.358 1 18 4093883 0.0051 11407.240.2205.9 177,76021 1,022 0.00446 65 0.39 0.276 21 4094077 0.0051 114033.0802129.9 177,5021 2.23647 0.0056 1 22 4094077 0.0051 114033.0802129.9 177,5021 2.23647 0.0056 22 4094077 0.0051 11405.160-02296.9 177,5021 2.23647 0.0056 23 4093994 0.0051 114051.60-02296.9 177,5021 2.23647 0.0056 24 4093996 0.0051 10405.60-021990.7 177,15202 1,49186 0.0006 25 4093996 0.0051 11405.240-01303.3 179,76021 2.44647 0.0010 26 4093996 0.0051 11405.240-01303.3 179,76021 2.44647 0.0006 27 409379 0.0051 1145.030-01333.7 179,7702 1.27690 0.0006 28 4094079 0.0051 1145.030-01333.7 179,7702 1.27690 0.0006 29 4093996 0.0051 1145.030-01333.7 179,7702 1.27690 0.0006 30 4094040 0.0051 1145.030-01333.3 1.77690 0.0006 31 4094040 0.0051			oid	main_id	ra	dec	rvz_redshift	galdim	galdim_ma	galdim_mi	morph_t	
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6 10123216 5055)153001.99+082550.9		4	4210471	COSMOS J095810.37+013328.0	149,54321	1,55778	0,01					
7 4 4212847 (CSMOS 10031773+014229 2 159,82388 1,70811 0,61		5	4048268	2XMM J040735.0-121613	61,89583	-12,27083	0,00042					
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J-PLUS

- We need a huge amount of external data:
 - Names, Positions, Redshift, Distances, Morphology, Environment, Presence of an AGN ... SIMBAD
- We can use the VO tools, two different approaches:
 - Load the coverage map of the survey in Aladin, load SIMBAD and perform a filter of SIMBAD with the coverage map. We should then filter by object type, redshift ...
 - Perform an ADQL Query with topcat in the SIMBAD basic table. --> Complete list of galaxies to cross-match with our observations.

J-PLUS

VO applications

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VO tools applied for J-PLUS

Tamara Civera, Javier Hernández, David Cristobal (UPAD @ CEFCA)

J-PLUS

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Rafael Logroño-García

rlgarcia@cefca.es

More on J-PLUS: www.j-plus.es More on J-PAS: www.j-pas.org More on OAJ: oajweb.cefca.es More on CEFCA: www.cefca.es

Thank You! Feel free to ask questions