### ALMA Observing Activity from 2019-11-25T17:59:00 to 2019-12-02T18:00:00

#### QA0 pass executions

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12:00:39 12:58:12 2019.A.00008.S Borisov_a_08_TM1 First D/H ratio for an interstellar comet: A window into the chemical complexity of protoplanetary system Jensen EU 12-m 8
12:02:15 13:38:02 2019.1.01635.S NGC4321_a_08_7M Comprehensive study of the physical conditions of the molecular gas in the inner 5-7 kpc of two star-forming galaxies Liu EU 7-m 8
13:07:51 14:05:11 2019.A.00008.S Borisov_a_08_TM1 First D/H ratio for an interstellar comet: A window into the chemical complexity of protoplanetary system Jensen EU 12-m 8
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18:18:07 19:38:10 2019.1.00994.S M17SW_a_06_7M Why is there a 400 K cloud of C3H+ in Lipnicky M17SW? NA 7-m 6
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21:30:54 22:25:29 2019.1.01450.S FRB181111_a_06_TM1 The molecular gas content of the host Tejos galaxies of Fast Radio Bursts CL 12-m 6
22:21:17 23:41:16 2019.1.00673.S RCS_J231_a_03_7M The highest resolution imaging of the Sunyaev-Zel'dovich effect at z~1 Kitayama EA 7-m 3
22:26:30 23:20:42 2019.1.01450.S FRB181111_a_06_TM1 The molecular gas content of the host Tejos galaxies of Fast Radio Bursts CL 12-m 6
23:26:04 23:51:42 2019.1.01450.S FRB180922_a_06_TM1 The molecular gas content of the host Tejos galaxies of Fast Radio Bursts CL 12-m 6
23:44:59 01:15:11 2019.1.01251.S Q0107+03_a_04_7M SUPERCOLD-CGM: a high-z survey of molecular gas across the circum-galactic medium of Enormous Lya Nebulae Emonts NA 7-m 4
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to Discover the Most Luminous [CII]-[OIII] Galaxies in the Reionization Epoch

M.33 t_06_7M

ACO (2-1) mapping toward the nearest spiral galaxy M 33

Muraoka

EA

7-m

6

REBELS: An ALMA Large Program to Bouwens Discover the Most Luminous [CII]-[OIII] Galaxies in the Reionization Epoch

XMM1-159_a_06_TM1

CL EA EU NA

12-m

6

WISDOM: Constraining the scatter in the M-sigma relation at fixed velocity dispersion

NGC1497_a_06_7M

EU

7-m

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SODA: a flux-limited Survey of Orion's van Terwisga Disks with ALMA

M12_176_a_06_TM1

EU

12-m

6

The effects of feedback on molecular gas: Survey of CO in 30 Doradus

30_Dorad_c_06_7M

NA

7-m

6

SODA: a flux-limited Survey of Orion's van Terwisga Disks with ALMA

M12_176_a_06_TM1

EU

12-m

6

The effects of feedback on molecular gas: Survey of CO in 30 Doradus

30_Dorad_d_06_TP

Wong

NA

Total Power

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AC Mapping of the Star-Forming Northern Tip of the Large Magellanic Cloud Molecular Ridge

North_Mo_b_06_7M

NA

7-m

6

Deep CO(J=1-0) mapping survey of 103 Eridanus supergroup galaxies with Morita array

ESO_482G_a_03_7M

Morokuma

EA

7-m

3

The effects of feedback on molecular gas: Survey of CO in 30 Doradus

30_Dorad_e_06_TM1

Wong

NA

Total Power

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First D/H ratio for an interstellar comet: A window into the chemical complexity of protoplanetary system

Borisov_a_05_TM1

Jensen

EU

12-m

5

VERTICO: The Virgo Environment Traced in CO

NGC_4380_a_06_TP

Brown

EA EU NA

Total Power

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Comprehensive study of the physical conditions of the molecular gas in the inner 5-7 kpc of two star-forming galaxies

NGC4321_a_08_7M

Liu

EU

7-m

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First D/H ratio for an interstellar comet: A window into the chemical complexity of protoplanetary system

Borisov_a_05_TM1

Jensen

EU

12-m

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VERTICO: The Virgo Environment Traced in CO

NGC_4380_a_06_TP

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EA EU NA

Total Power

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First D/H ratio for an interstellar comet: A window into the chemical complexity of protoplanetary system

Borisov_a_05_TM1

Jensen

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ALMAGAL: ALMA Evolutionary study of High Mass Protocluster Formation in the Galaxy

702472_a_06_7M

Molinari

EA EU NA

7-m

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VERTICO: The Virgo Environment Traced in CO

NGC_4380_a_06_TP

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EA EU NA

Total Power

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PHANGS-CMZs: Uncovering the Lifecycle of Galactic Nuclei by Mapping Extragalactic 'Central Molecular Zones'

NGC5248_a_07_TM2

Chevance

EU

12-m

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VERTICO: The Virgo Environment Traced in CO

NGC_4772_a_06_7M

Brown

EA EU NA

7-m

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Emission mechanism of the gamma-ray binary PSR B1259-"
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<td>NGC1232_a_03_7M</td>
<td>Deep CO(J=1-0) mapping survey of 103 Eridanus supergroup galaxies with Morita array</td>
<td>Morokuma</td>
<td>EA</td>
<td>7-m</td>
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Dusty, Star-Forming Galaxies: the nature of the dust temperature

The effects of feedback on molecular gas: Survey of CO in 30 Doradus

A Complete Survey of Protostellar Disk Gas and Dust Structure in Taurus

The effects of feedback on molecular gas: Survey of CO in 30 Doradus

The Horsehead

Photo-erosion of molecular clouds: The Horsehead

BOPS: B-field Orion Protostellar Survey

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On the Spectral Energy Distribution of Zavala Dusty, Star-Forming Galaxies: the nature of the dust temperature evolution.

REBELS: An ALMA Large Program to Bouwens Discover the Most Luminous [CII]+[OIII] Galaxies in the Reionization Epoch

Physics at High Angular Resolution in Faesi Nearby Galaxies: The Local Galaxy Inventory Continued

REBELS: An ALMA Large Program to Bouwens Discover the Most Luminous [CII]+[OIII] Galaxies in the Reionization Epoch

The first measurement of metallicity and ISM conditions of a normal galaxy at reionisation

2019-11-30

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<td>Williams</td>
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<td>Photo-erosion of molecular clouds: The Horsehead</td>
<td>Guzman</td>
<td>CL</td>
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<td>COS.0019_a_08_TP</td>
<td>On the Spectral Energy Distribution of Zavala Dusty, Star-Forming Galaxies: the nature of the dust temperature evolution.</td>
<td>NA</td>
<td>7-m</td>
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The Kinematical Transition between
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The effects of feedback on molecular
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The Kinematical Transition between
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The Molecular Gas Content of the Host Tejos
galaxies of Fast Radio Bursts
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galaxies of Fast Radio Bursts

Vertico: The Virgo Environment
Traced in CO
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Traced in CO

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Bally
Bally

Rafelski
Rafelski

Kitayama
Kitayama

Muraoka
Muraoka

Brown
Brown

Wong
Wong

Alexander
Alexander

Espaillat
Espaillat

Bouwens
Bouwens

NA
NA

Total Power
Total Power

Band: 6
Band: 6

Array: 7-m
Array: 7-m

Project Code: 2019.1.00058.S
Project Code: 2019.1.00639.S

Project Title: ACA CO(2-1) mapping toward the nearest spiral galaxy M 33
Project Title: REBELS: An ALMA Large Program to Discover the Most Luminous [CII]+[OIII] Galaxies in the Reionization Epoch

Executional: NA
Executional: EA

7-m
12-m

2019-12-01
2019-12-01

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00:51:16

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01:52:11

02:32:13
02:32:13

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02:53:52

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03:06:12

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03:44:36

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04:17:46

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04:18:07

04:27:05
04:27:05

04:40:48
04:40:48

05:32:02
05:32:02

12-m
12-m

7-m
7-m

Total Power
Total Power

12-m
12-m

6
6

7-m
7-m

6
6

6
6

6
6
Deep CO(J=1-0) mapping survey of 103 Eridanus supergroup galaxies with Morokuma EA 7-m 3
SODA: a flux-limited Survey of Orion's van Terwisga EU 12-m 6
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REBELS: An ALMA Large Program to Bouwens CL EA EU NA 12-m 6
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A GEMS CO follow-up survey of IC 1459 group and NGC 4636 group Lee EA 7-m 3
SUPERCOLD-CGM: a high-z survey of molecular gas across the circum-galactic medium of Enormous Lya Nebulae Emonts NA 12-m 4
SUPERCOLD-CGM: a high-z survey of molecular gas across the circum-galactic medium of Enormous Lya Nebulae Emonts NA 7-m 4
AGN Before and After: Towards a balanced view of the link between circumnuclear gas and nuclear black hole activity Rosario EU 12-m 6
Gas around MS stars: A common exocometary origin for hot and cold gas Rebolledo EU 12-m 6
SUPERCOLD-CGM: a high-z survey of molecular gas across the circum-galactic medium of Enormous Lya Nebulae Emonts NA 7-m 4
Bulge Asymmetries and Dynamical Evolution (BAaDE) IV Sjouwerman NA 12-m 3
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Bulge Asymmetries and Dynamical Evolution (BAaDE) IV Sjouwerman NA 12-m 3
On the universality of fibres in star forming filaments Williams EU Total Power 3
ALMAGAL: ALMA Evolutionary study of High Mass Protocluster Formation in the Galaxy Molinari EA EU NA 7-m 6
Localized Feedback Processes in the Galactic CMZ Candelaria NA Total Power 3
Bulge Asymmetries and Dynamical Evolution (BAaDE) IV Sjouwerman NA 12-m 3
On the universality of fibres in star forming filaments Williams EU 7-m 3
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On the universality of fibres in star forming filaments Williams EU Total Power 3
Localized Feedback Processes in the Galactic CMZ Candelaria NA 7-m 3
On the universality of fibres in star forming filaments Williams EU 12-m 3
On the universality of fibres in star forming filaments Williams EU Total Power 3
On the universality of fibres in star forming filaments Williams EU 7-m 3
Identifying a SMG in the EoR Umehata EA 12-m 3
The Third Leg of Galaxy Stellar Mass Webb Assembly: A Census of CO in high-redshift cluster centrals NA 12-m 4
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<td>02:59:58</td>
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<td>The Third Leg of Galaxy Stellar Mass Assembly: A Census of CO in high-redshift cluster centrals</td>
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<td>Molecular gas in the starburst-driven superwind of NGC 1482</td>
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<td>EA</td>
<td>12-m</td>
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<td>SODA: a flux-limited Survey of Orion's van Terwisga Disks with ALMA</td>
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<td>COS.0019_a_08_7M</td>
<td>On the Spectral Energy Distribution of Zavala Dusty, Star-Forming Galaxies: the nature of the dust temperature evolution.</td>
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<td>The Host Galaxies of the Radio-Loud Quasars at z&gt;5</td>
<td>Mazzucchelli</td>
<td>EU</td>
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<td>On the Spectral Energy Distribution of Zavala Dusty, Star-Forming Galaxies: the nature of the dust temperature evolution.</td>
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<td>7-m</td>
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<td>Brown</td>
<td>EA EU NA</td>
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