

Complete Catalogs of Dendrogram Features in DR1 Regions

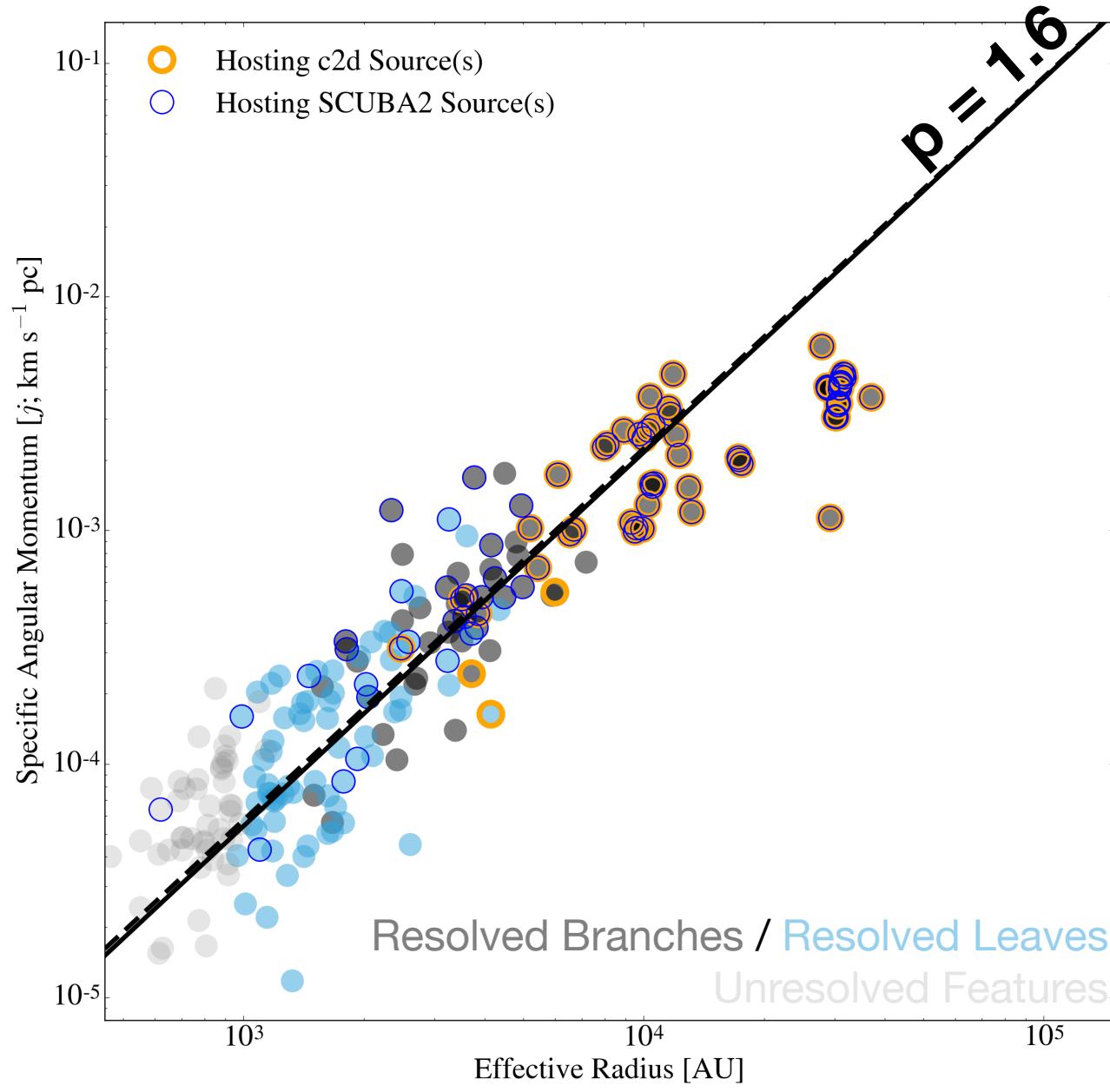
	ID	RA	Dec	M	Axis_maj	Axis_min	R_eff	PA	Area	V_cen	V_RMS	V_RMS_deno
0	0	246.776483	-24.526928	361919.383247	0.256668	0.125295	0.179330	139.415119	0.242486	3.608217	0.381713	0.450905
1	1	246.867686	-24.697819	17163.264699	0.103117	0.039454	0.063784	119.260956	0.056460	3.695094	0.378250	0.412733
2	2	246.868821	-24.698430	16694.837230	0.102195	0.038668	0.062863	118.822530	0.055635	3.702230	0.375213	0.404087
3	3	246.873026	-24.699863	13247.185803	0.100326	0.035227	0.059449	118.783982	0.049187	3.732758	0.355190	0.388304
4	4	246.875916	-24.700888	9822.162909	0.099008	0.032186	0.056450	118.398260	0.041952	3.758388	0.332778	0.381160
5	5	246.874408	-24.700436	11845.304769	0.099540	0.034203	0.058349	118.585787	0.046375	3.743685	0.348320	0.385019
6	6	246.876485	-24.701092	9302.768327	0.098530	0.031699	0.055887	118.262094	0.040789	3.763115	0.329406	0.380040
7	7	246.885591	-24.703720	5847.290206	0.083282	0.028173	0.048439	120.249801	0.032429	3.749713	0.304117	0.346076
8	8	246.759487	-24.491217	219687.847826	0.207908	0.113977	0.153937	121.750764	0.185351	3.601685	0.381889	0.405534
9	9	246.884040	-24.704086	7189.828215	0.083810	0.031265	0.051189	119.668803	0.036328	3.735086	0.316455	0.348864
10	10	246.886226	-24.703664	5177.821916	0.083047	0.026939	0.047299	120.421310	0.030367	3.756745	0.293105	0.343754
11	11	246.890906	-24.704618	3151.600763	0.077479	0.024056	0.043172	122.722531	0.023619	3.804347	0.250725	0.318187
12	12	246.733509	-24.638518	2.376886	0.009022	0.005904	0.007298	118.102754	0.000675	3.835144	0.513859	0.402663
13	13	246.884872	-24.703892	6435.996929	0.083270	0.029686	0.049719	119.671842	0.034191	3.74521	0.30961	0.346327
14	14	246.890741	-24.703579	2321.842368	0.077561	0.019926	0.039313	122.580763	0.019832	3.816824	0.239034	0.315947
15	15	246.890649	-24.703317	2128.105402	0.077715	0.019169	0.03857	121.7359	0.01889	3.8240	0.2824	0.3610
16	16	246.760236	-24.490570	213138.882130	0.205743	0.113608	0.152886	121.309900	0.182090	3.605665	0.379524	0.393157
17	17	246.854636	-24.681862	138.286949	0.019723	0.012646	0.015793	111.541574	0.003824	4.140264	0.230520	0.203879
18	18	246.759487	-24.491217	219687.847826	0.205743	0.113608	0.152886	121.309900	0.182090	3.605665	0.379524	0.393157
19	19	246.759487	-24.491217	219687.847826	0.205743	0.113608	0.152886	121.309900	0.182090	3.605665	0.379524	0.393157

<https://github.com/hopehhchen/DendroCatalogs.git>

Hope Chen
The GBT Ammonia Survey

L1688

Angular Momentum at the Smallest Scale



Goodman et al. (1993)

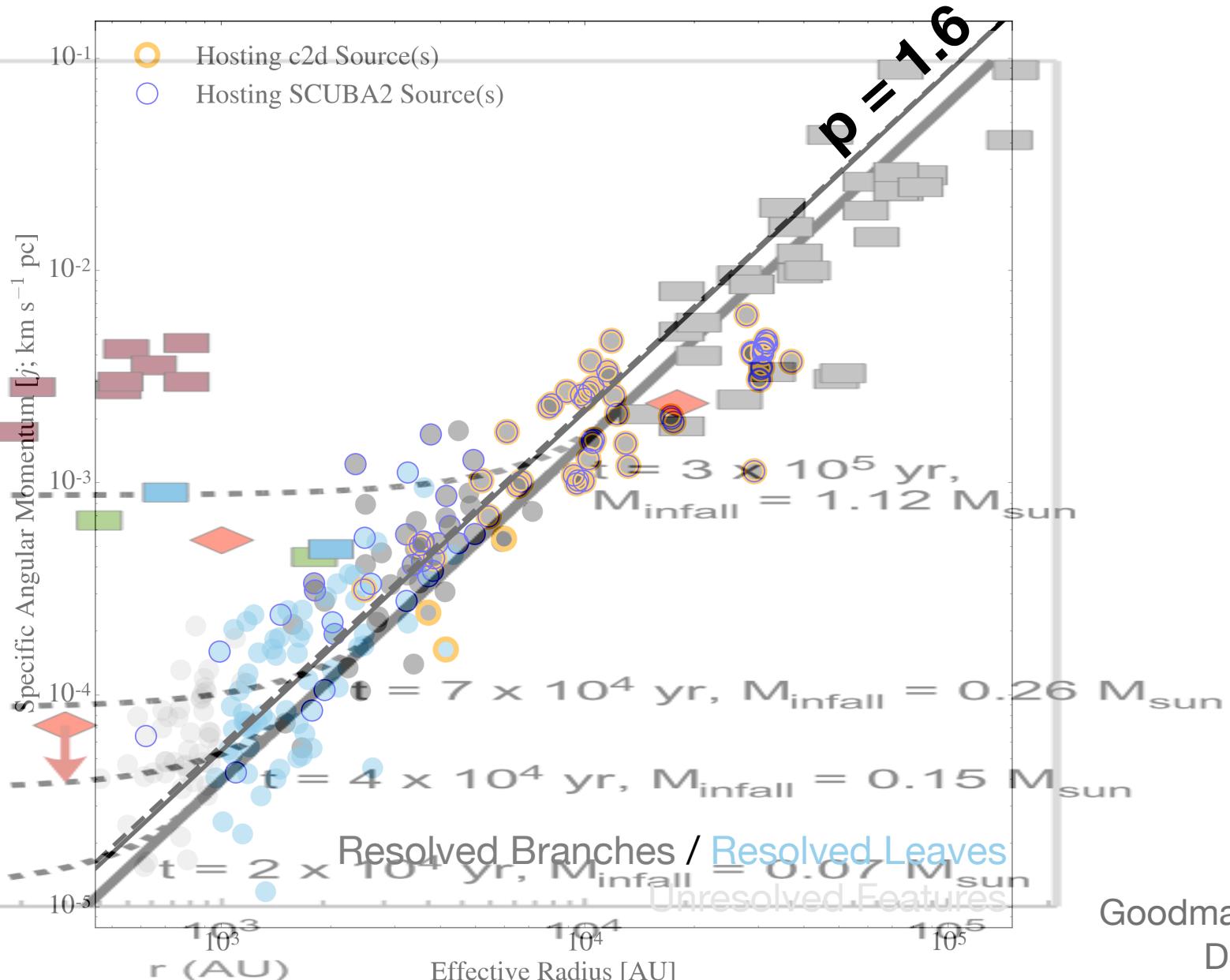
Dib et al. (2010)

Yen et al. (2011)

Pineda, Dunham, et al. (*in prep?*)

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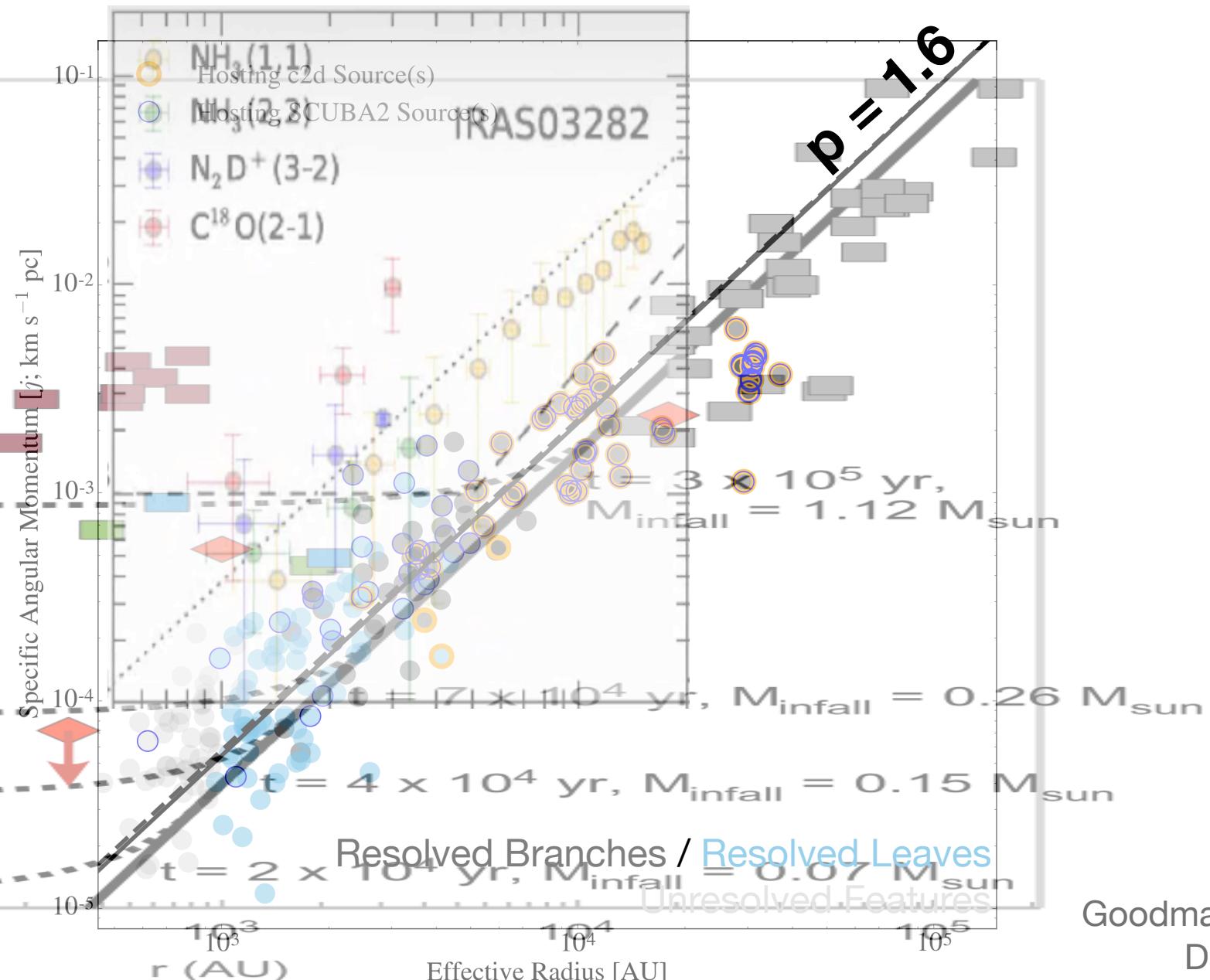
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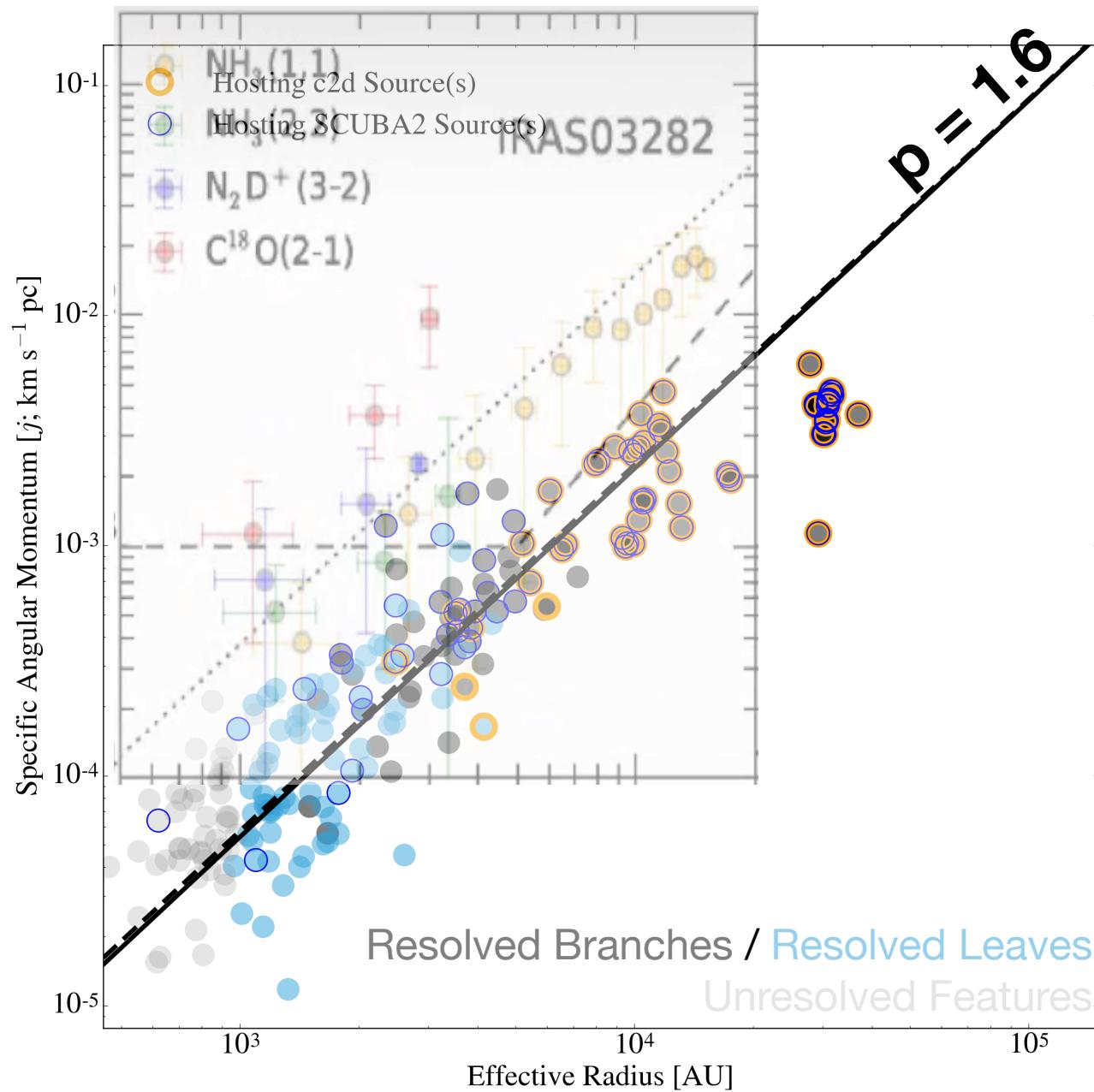
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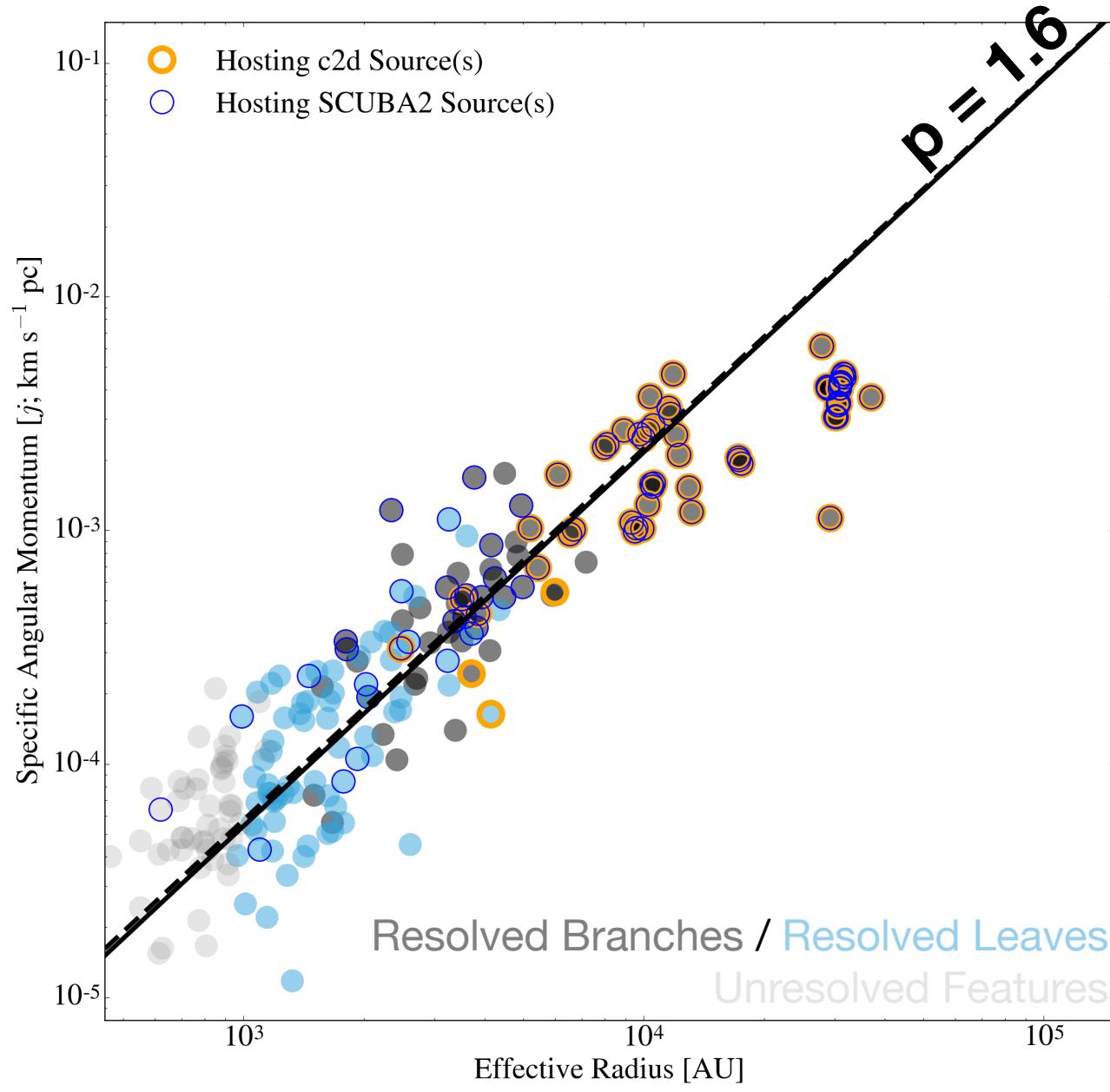
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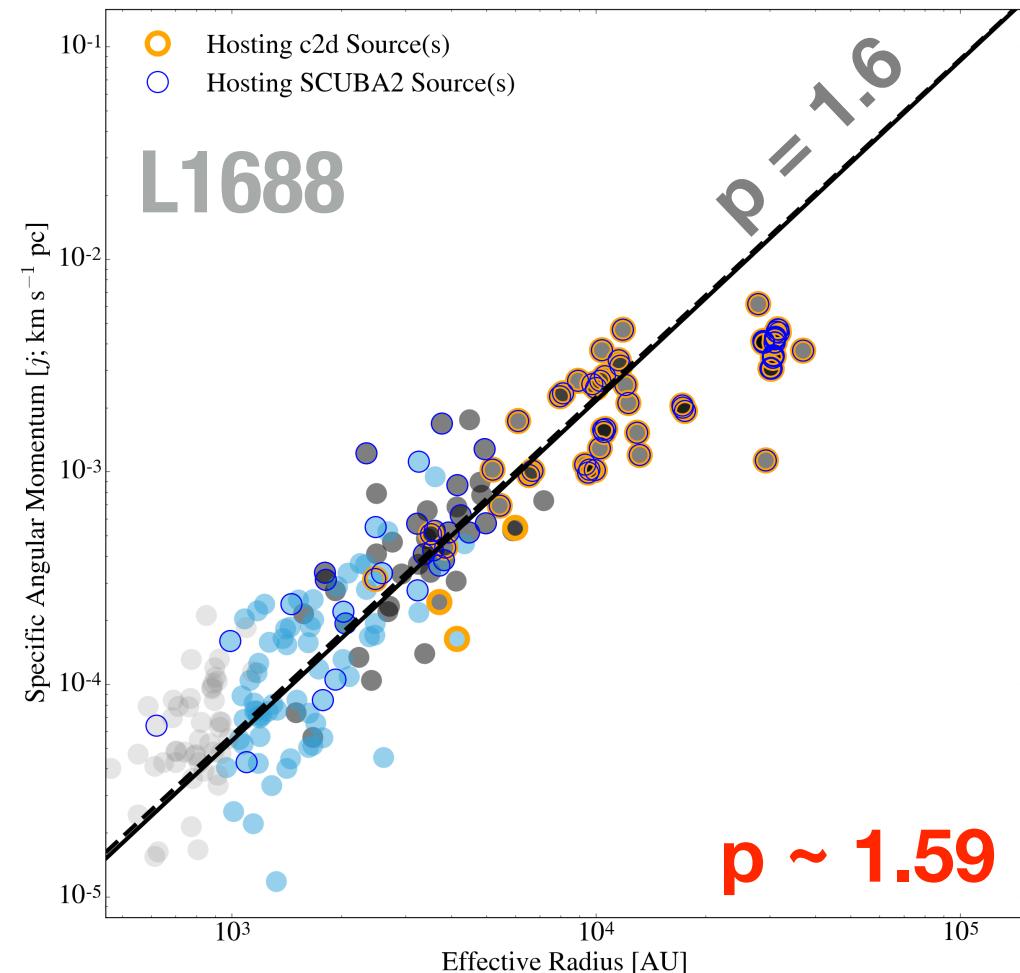
Dib et al. (2010)

Yen et al. (2011)

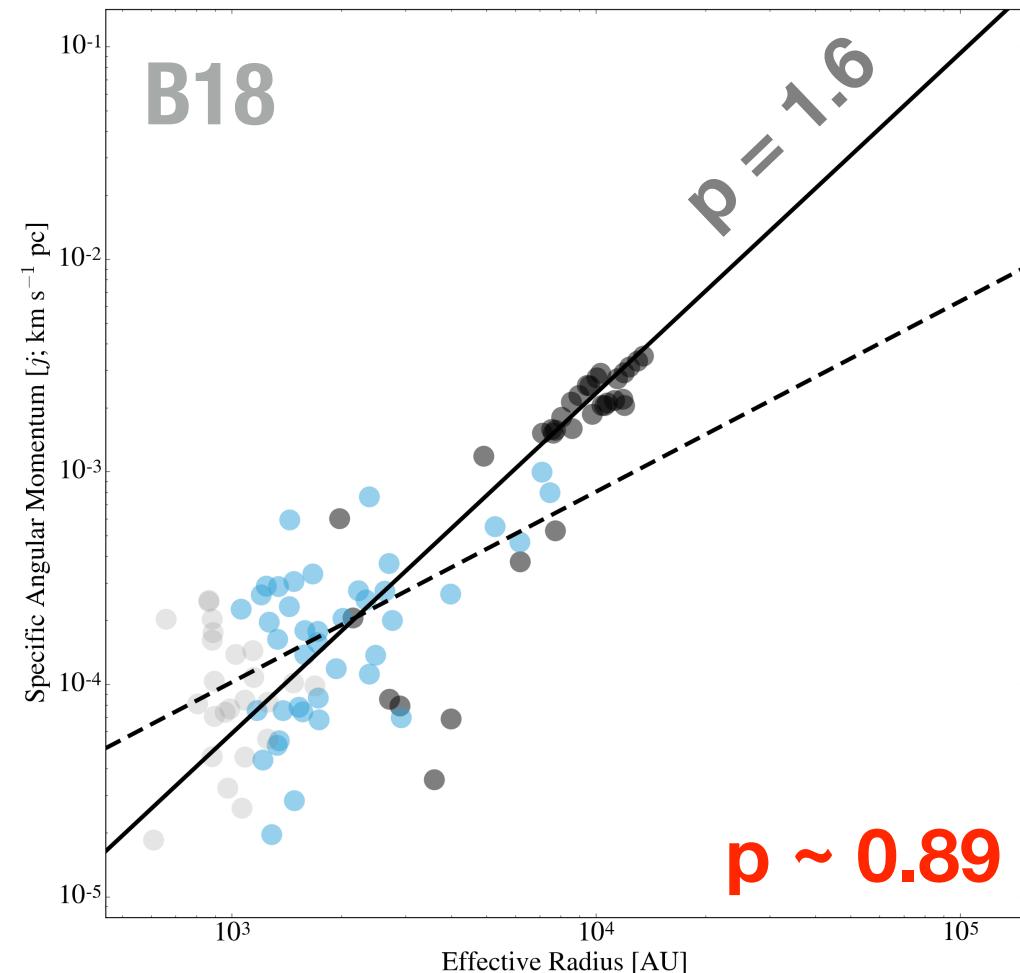
Pineda, Dunham, et al. (*in prep?*)

DR1

Angular Momentum at the Smallest Scale



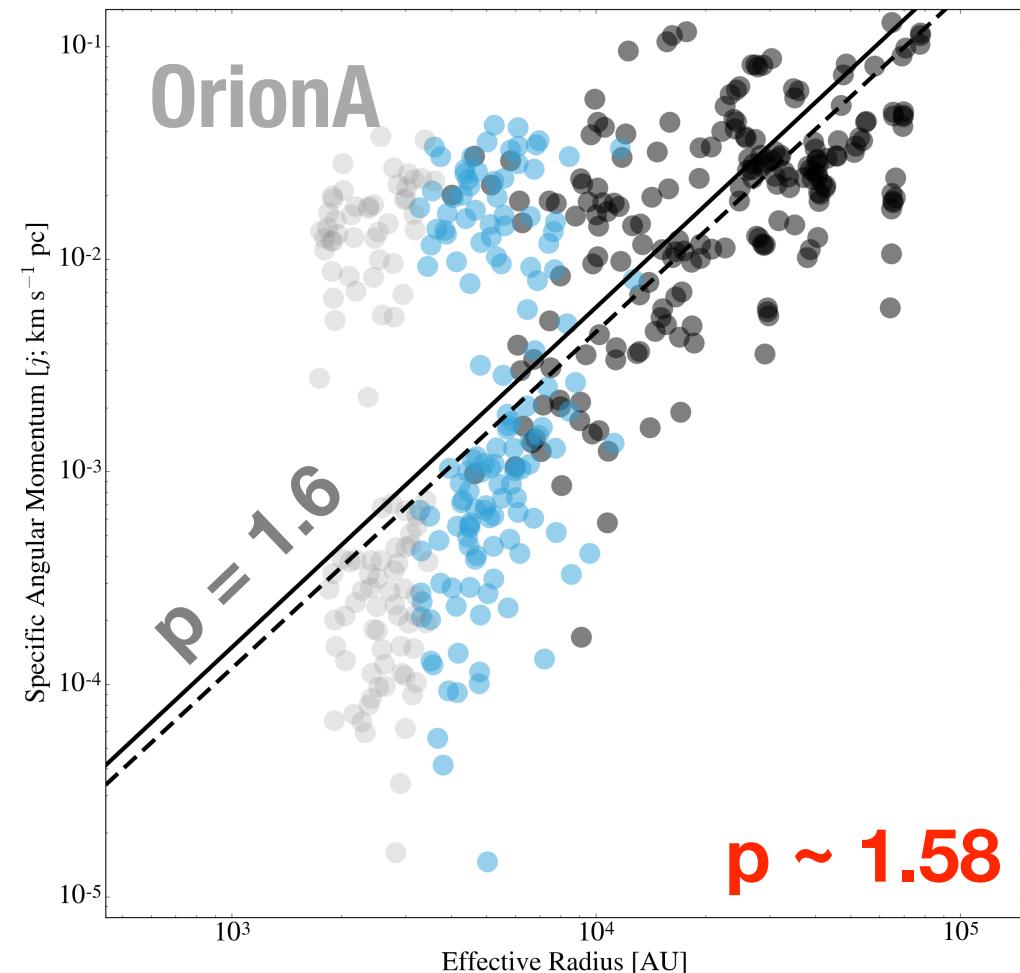
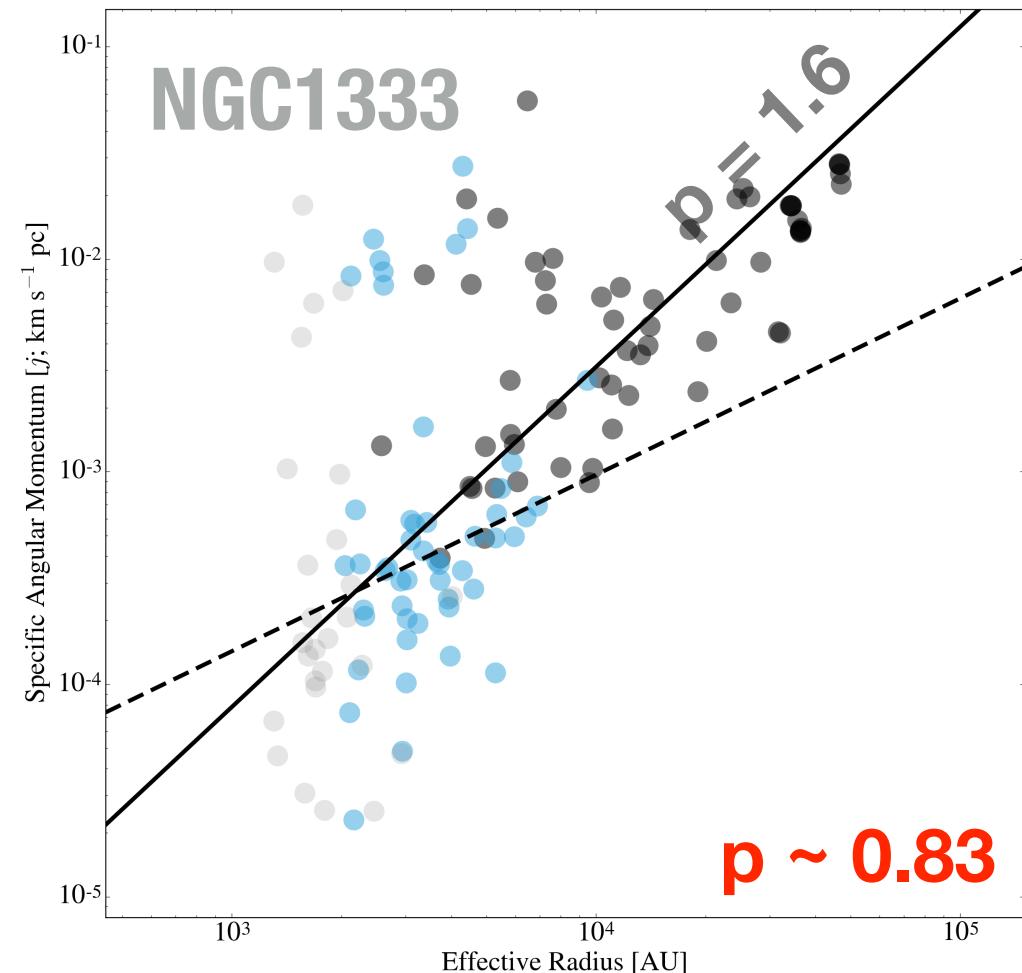
Resolved Branches / Resolved Leaves
Unresolved Features



Theil-Sen Regression

DR1

Angular Momentum at the Smallest Scale

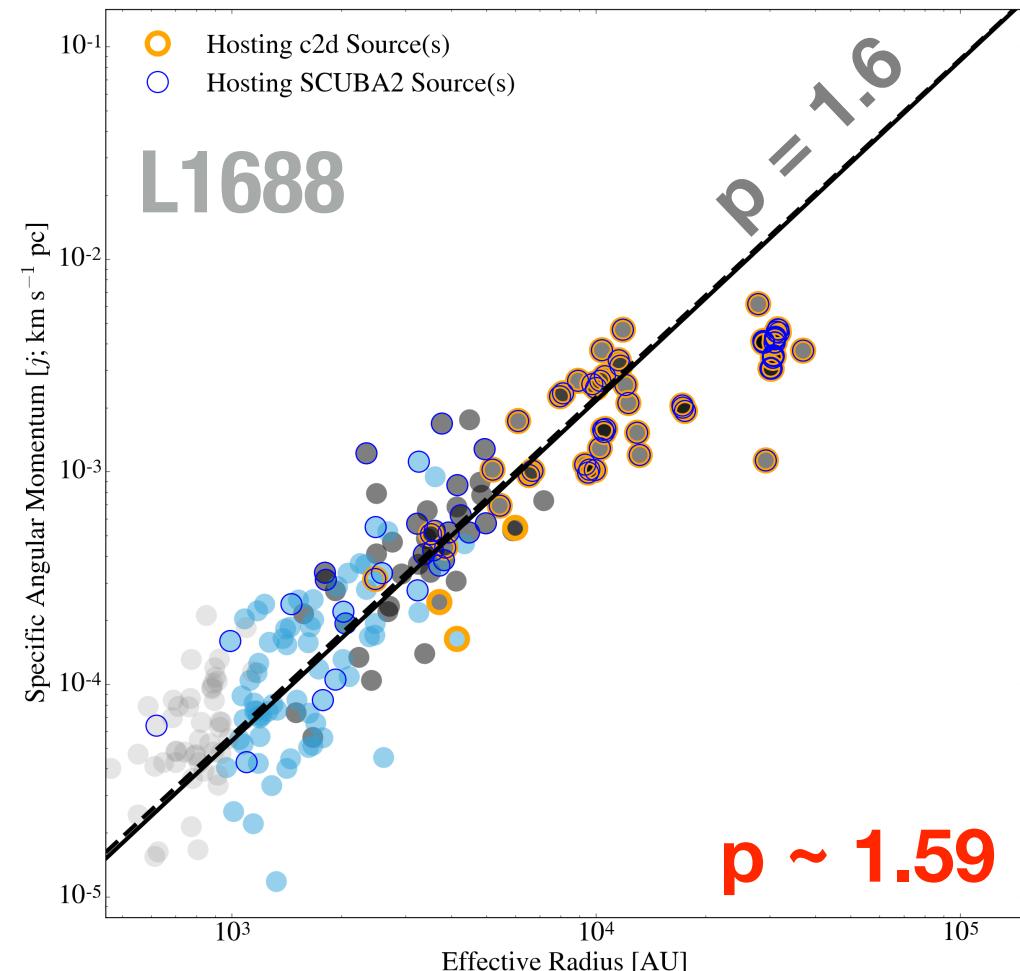


Resolved Branches / Resolved Leaves
Unresolved Features

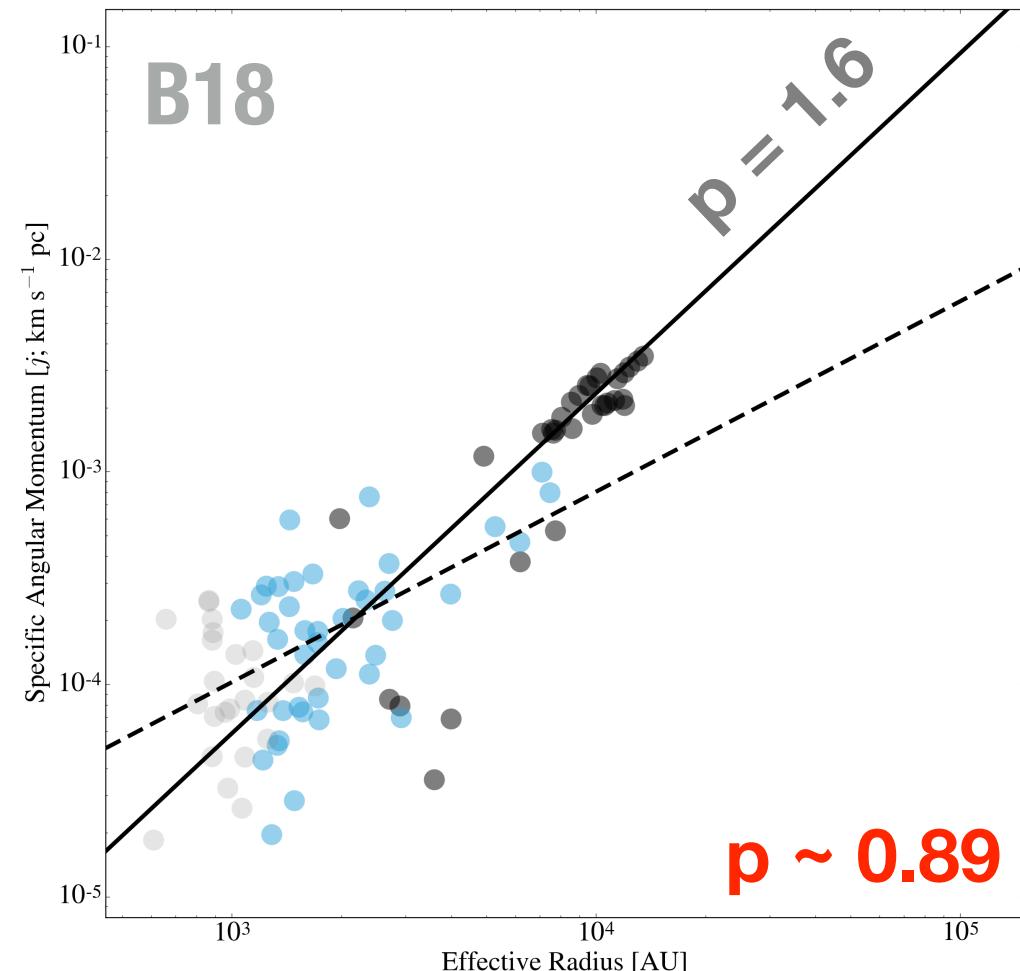
Theil-Sen Regression

DR1

Angular Momentum at the Smallest Scale



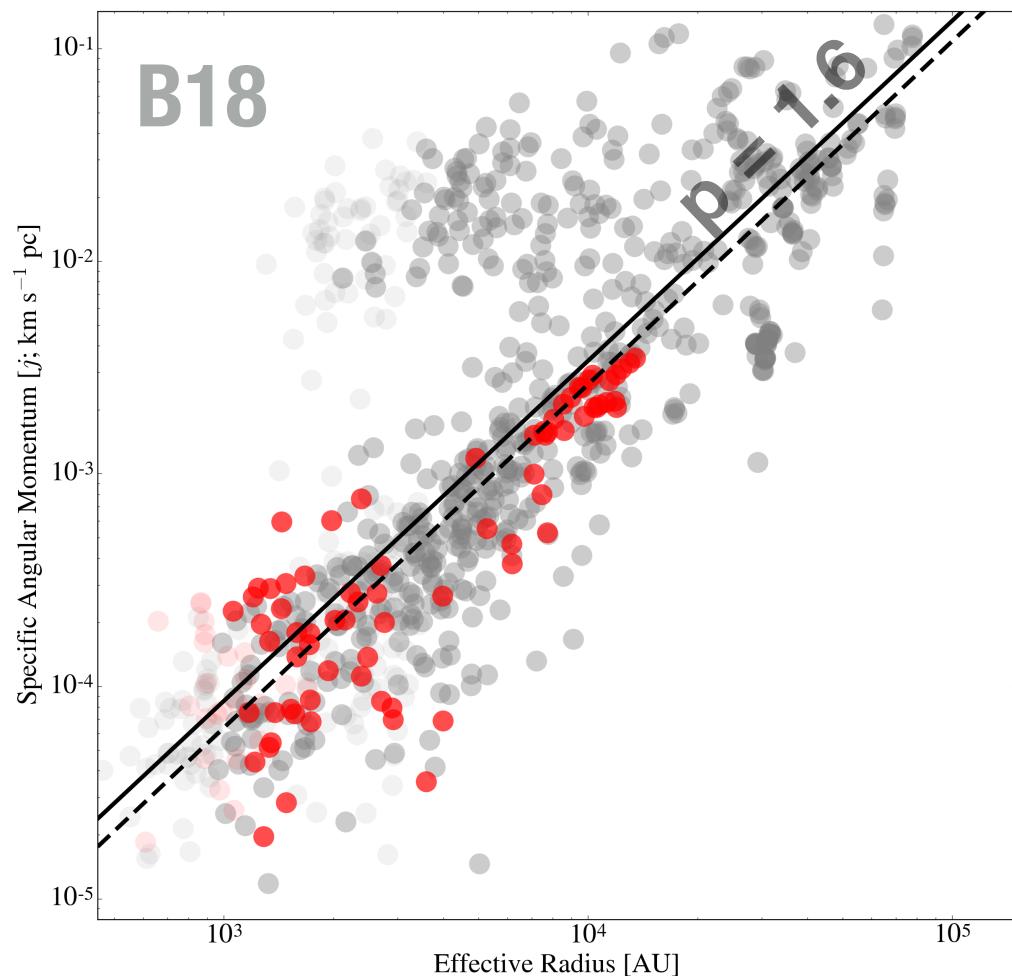
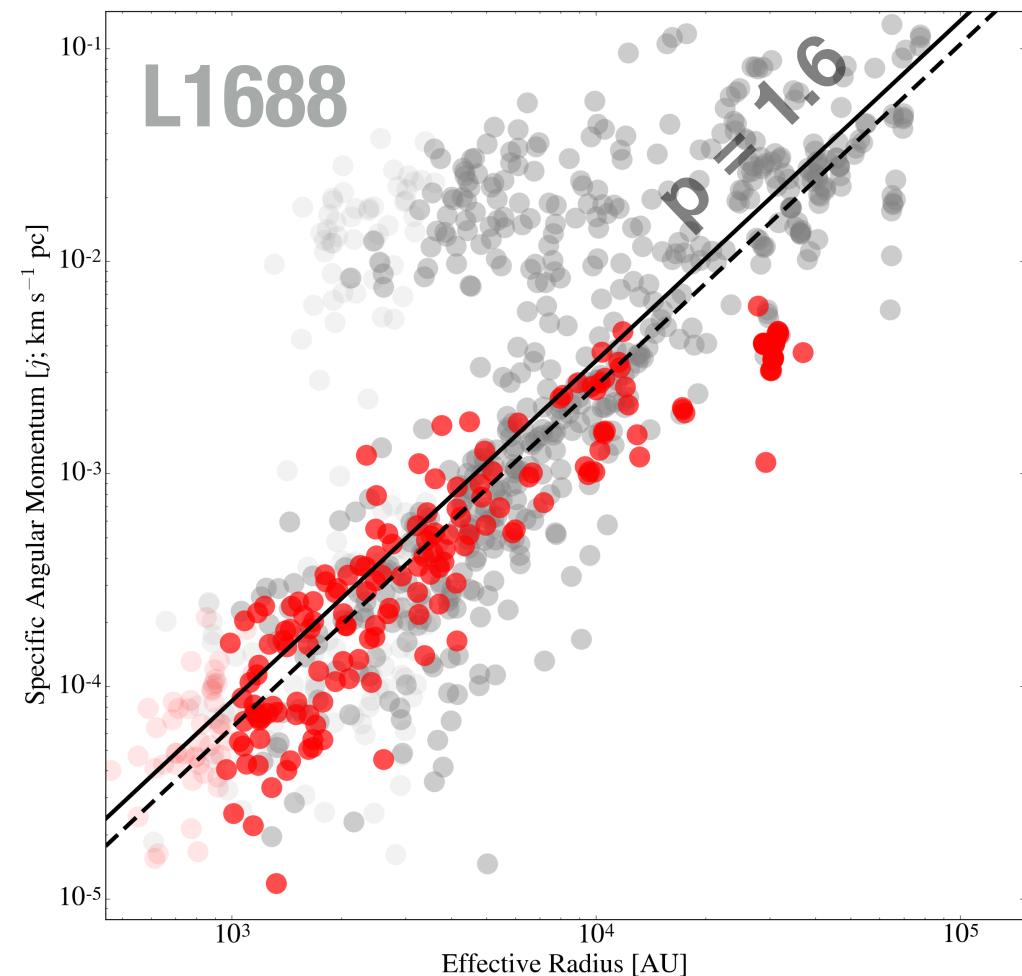
Resolved Branches / Resolved Leaves
Unresolved Features



Theil-Sen Regression

DR1

Angular Momentum at the Smallest Scale



Resolved Features / Unresolved Features

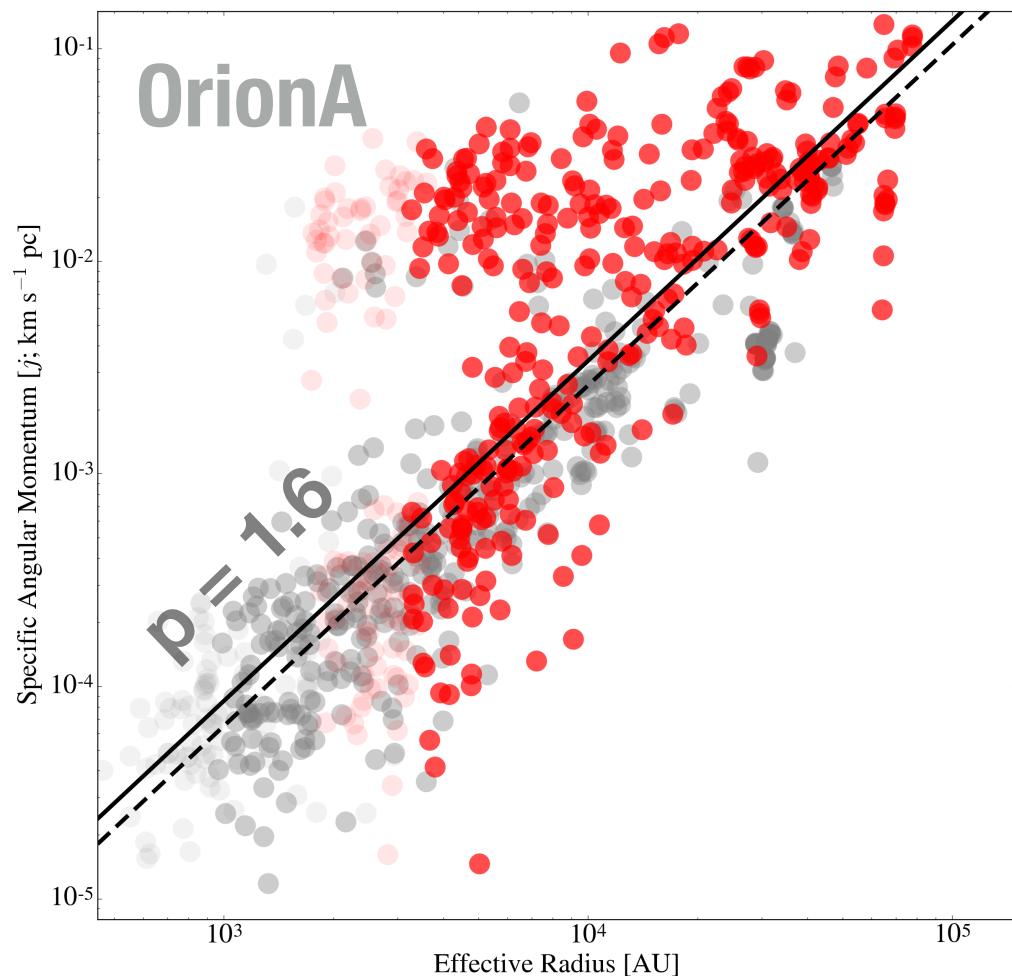
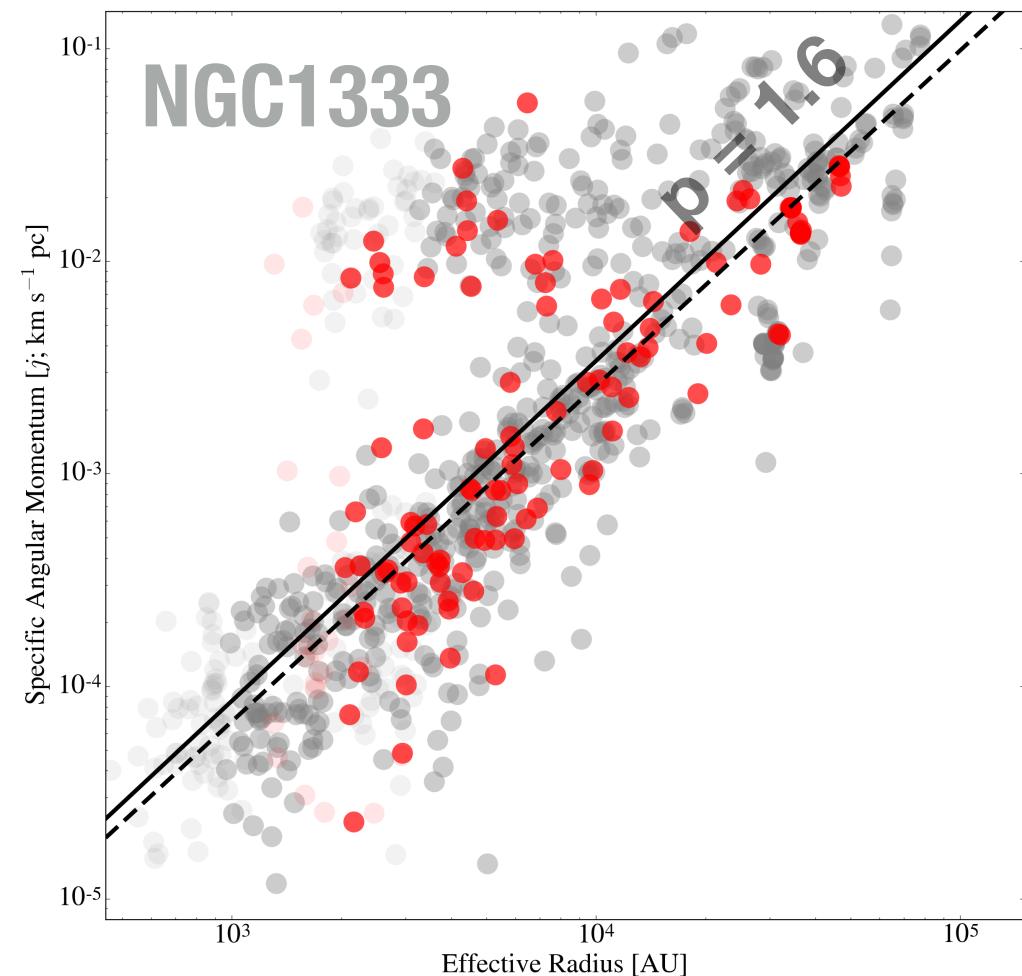
Resolved Features / Unresolved Features

Theil-Sen Regression

$p \sim 1.61$

DR1

Angular Momentum at the Smallest Scale



Resolved Features / Unresolved Features

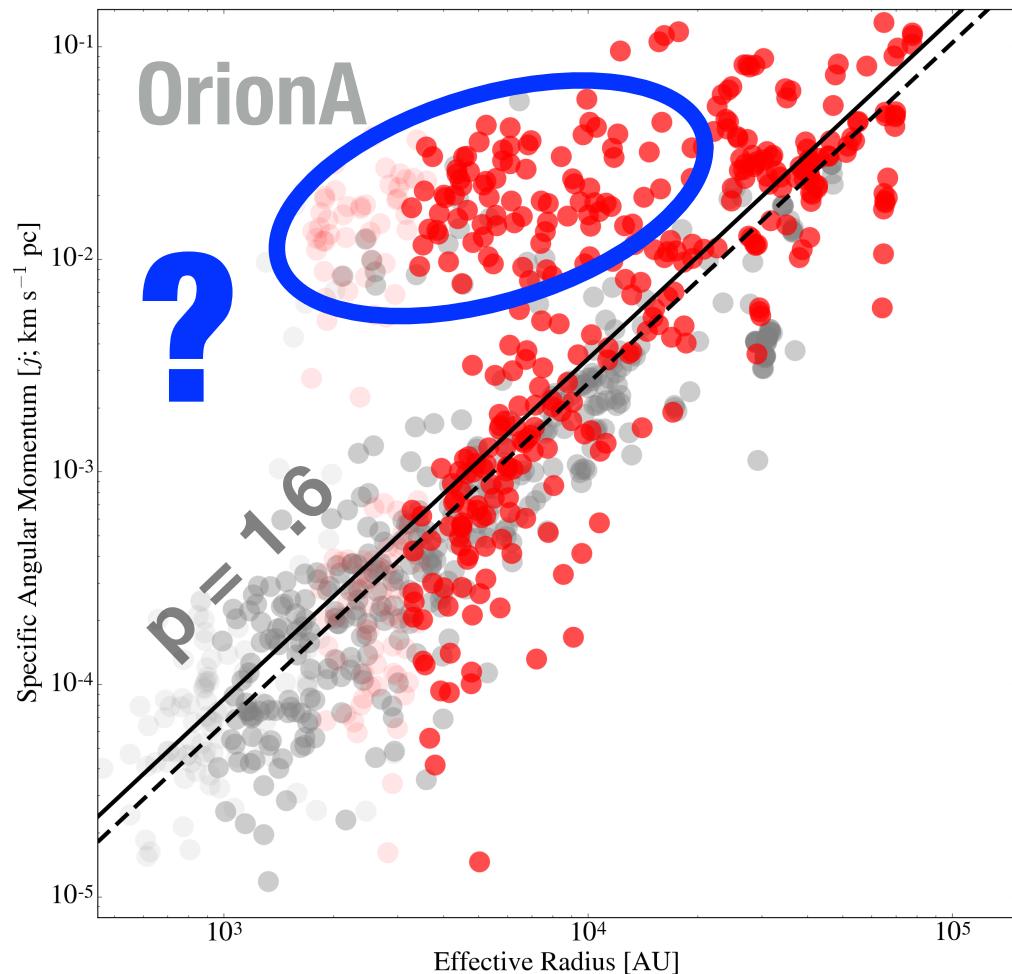
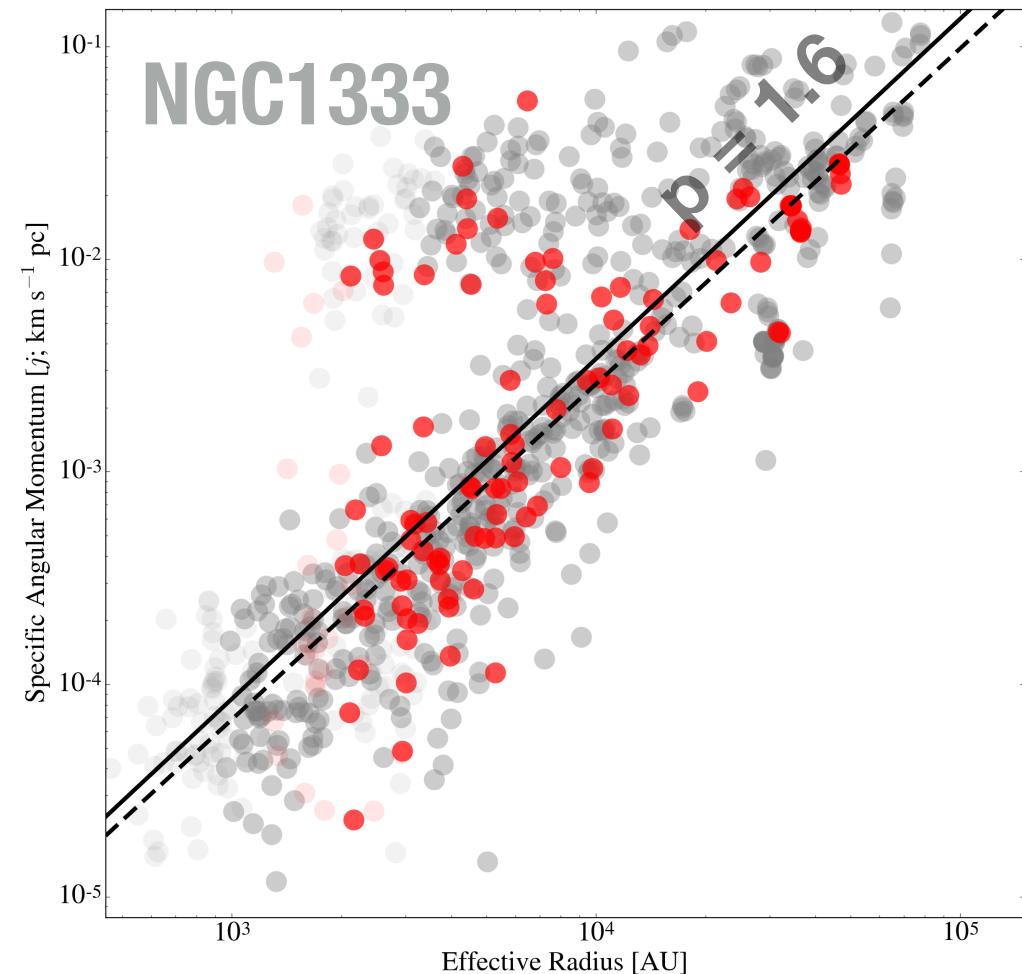
Resolved Features / Unresolved Features

Theil-Sen Regression

$p \sim 1.61$

DR1

Angular Momentum at the Smallest Scale



Resolved Features / Unresolved Features

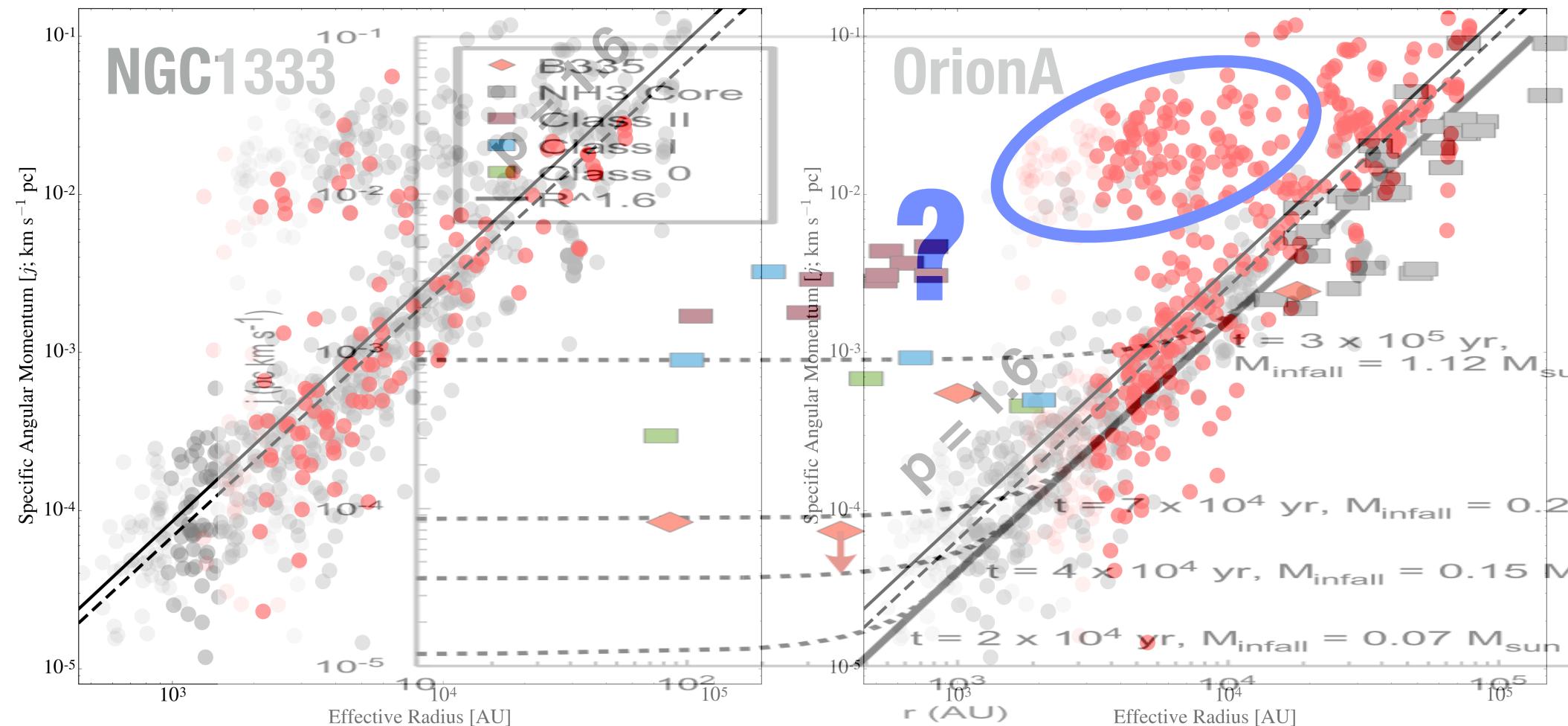
Resolved Features / Unresolved Features

Theil-Sen Regression

$p \sim 1.61$

DR1

Angular Momentum at the Smallest Scale



Resolved Features / Unresolved Features

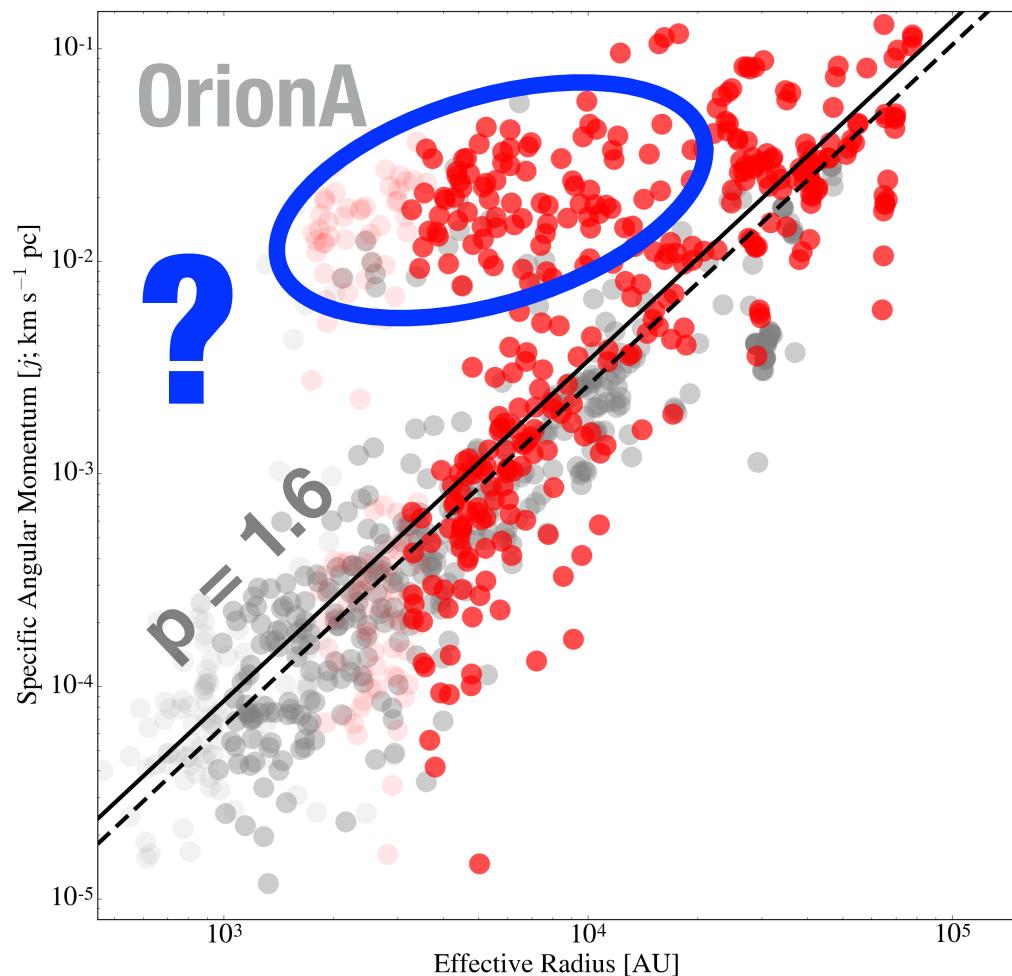
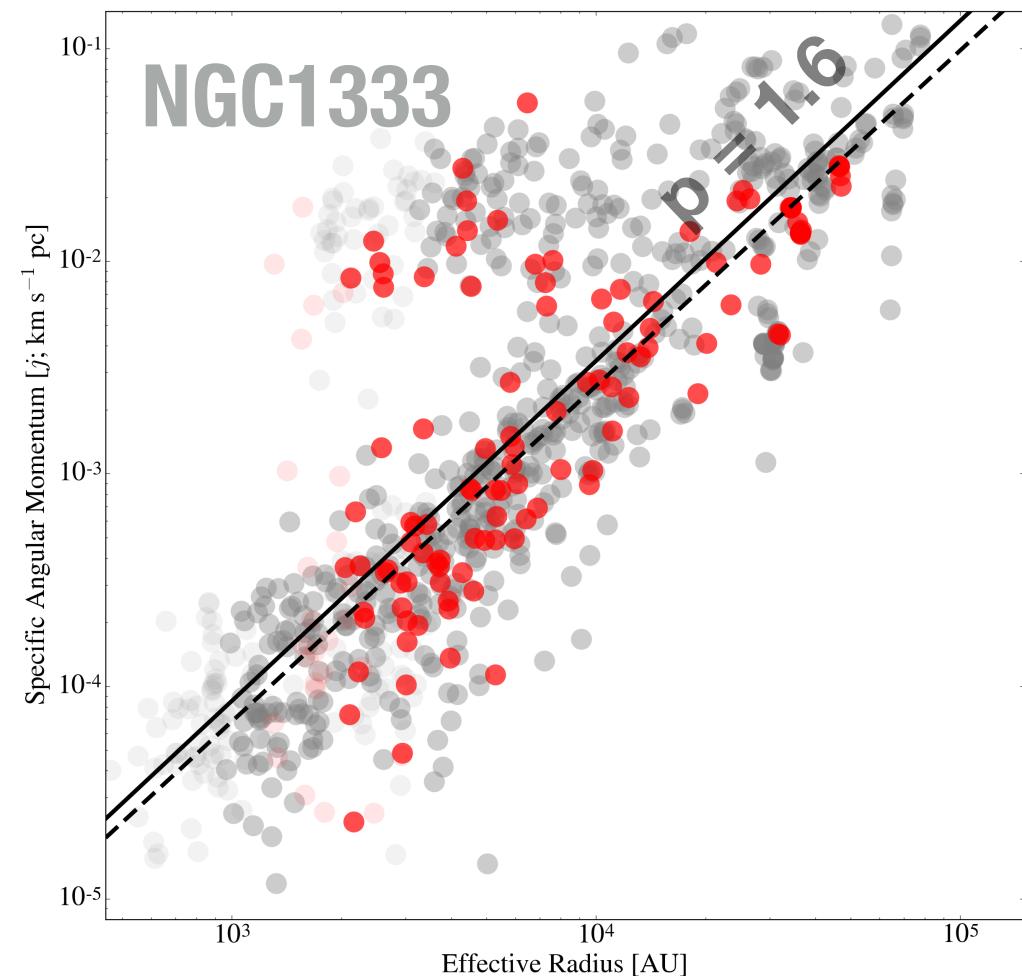
Resolved Features / Unresolved Features

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DR1

Angular Momentum at the Smallest Scale



Resolved Features / Unresolved Features

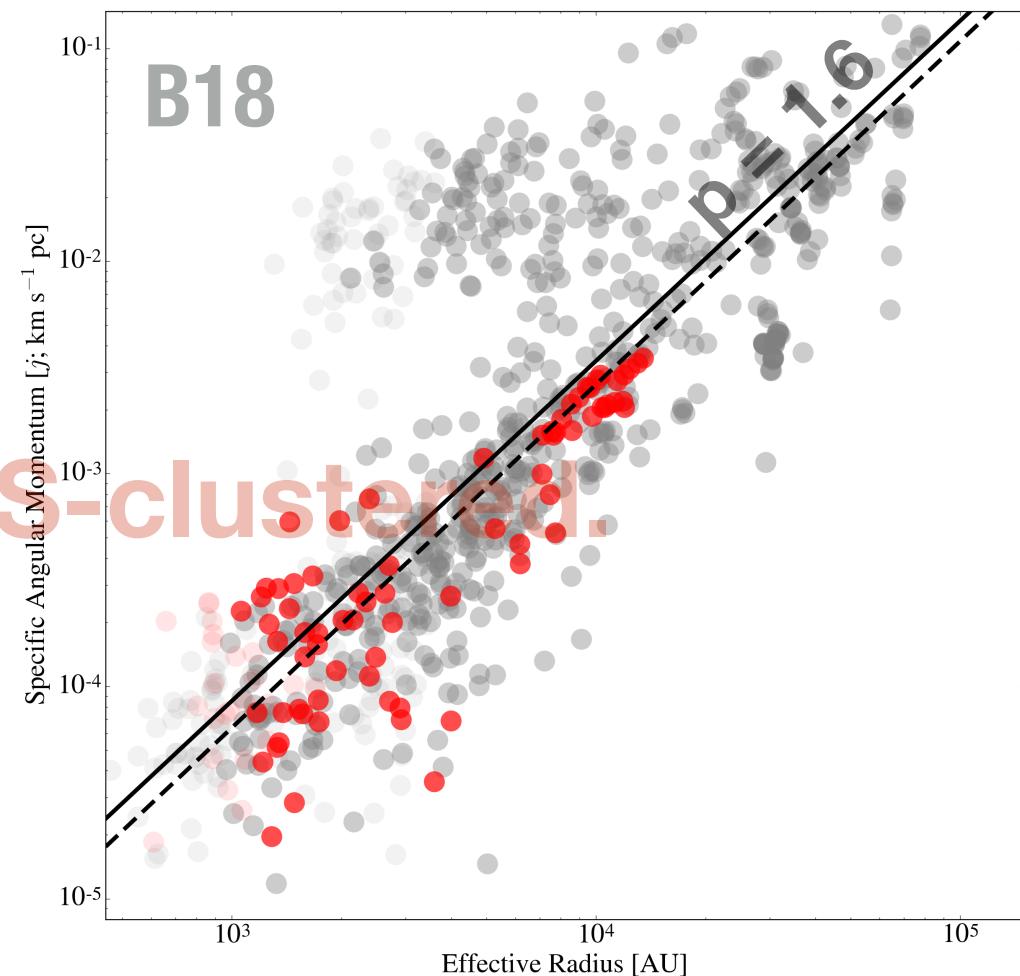
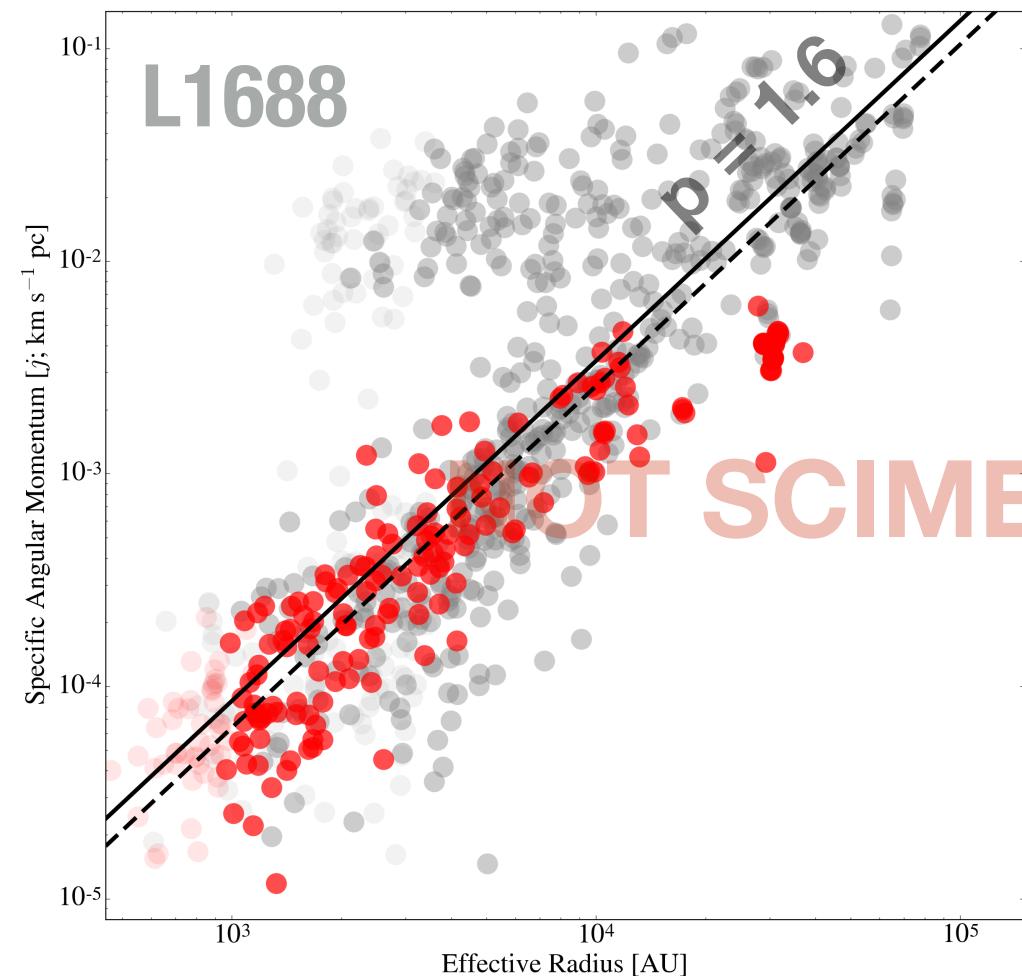
Resolved Features / Unresolved Features

Theil-Sen Regression

$p \sim 1.61$

DR1

Angular Momentum at the Smallest Scale



Resolved Features / Unresolved Features

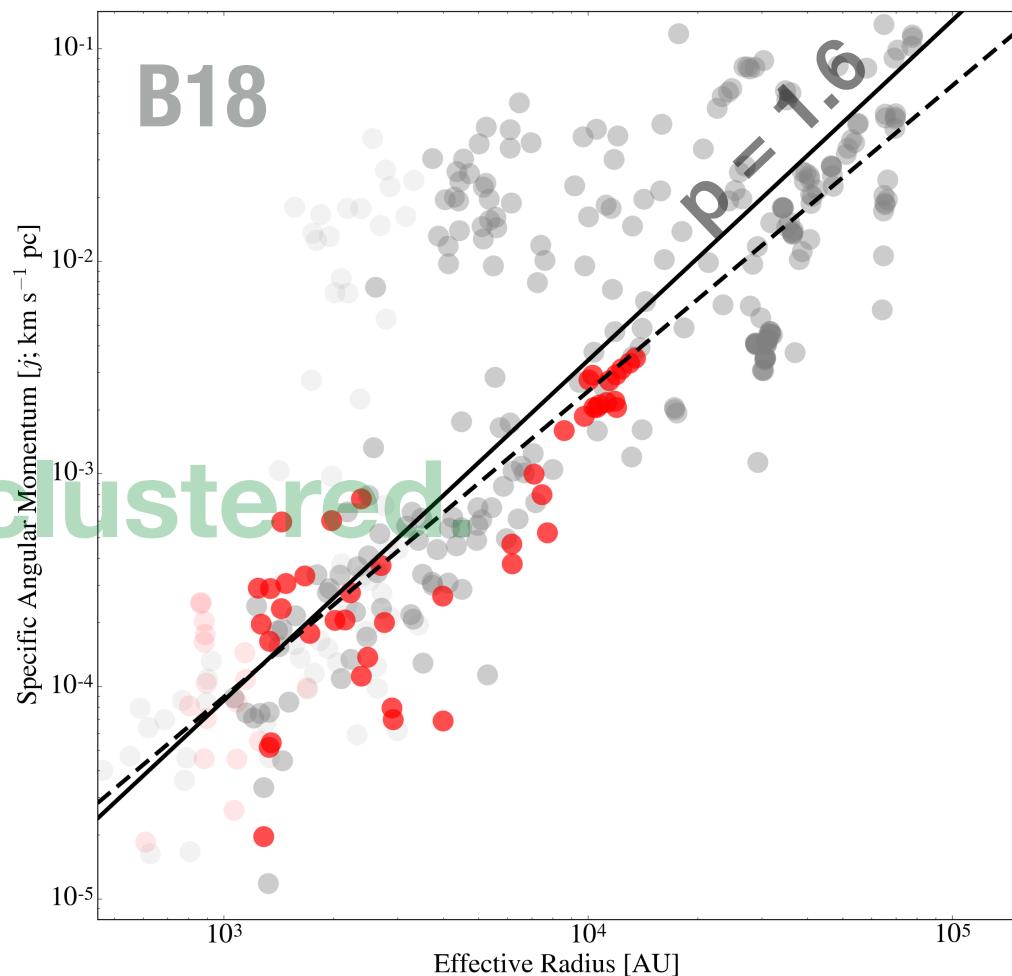
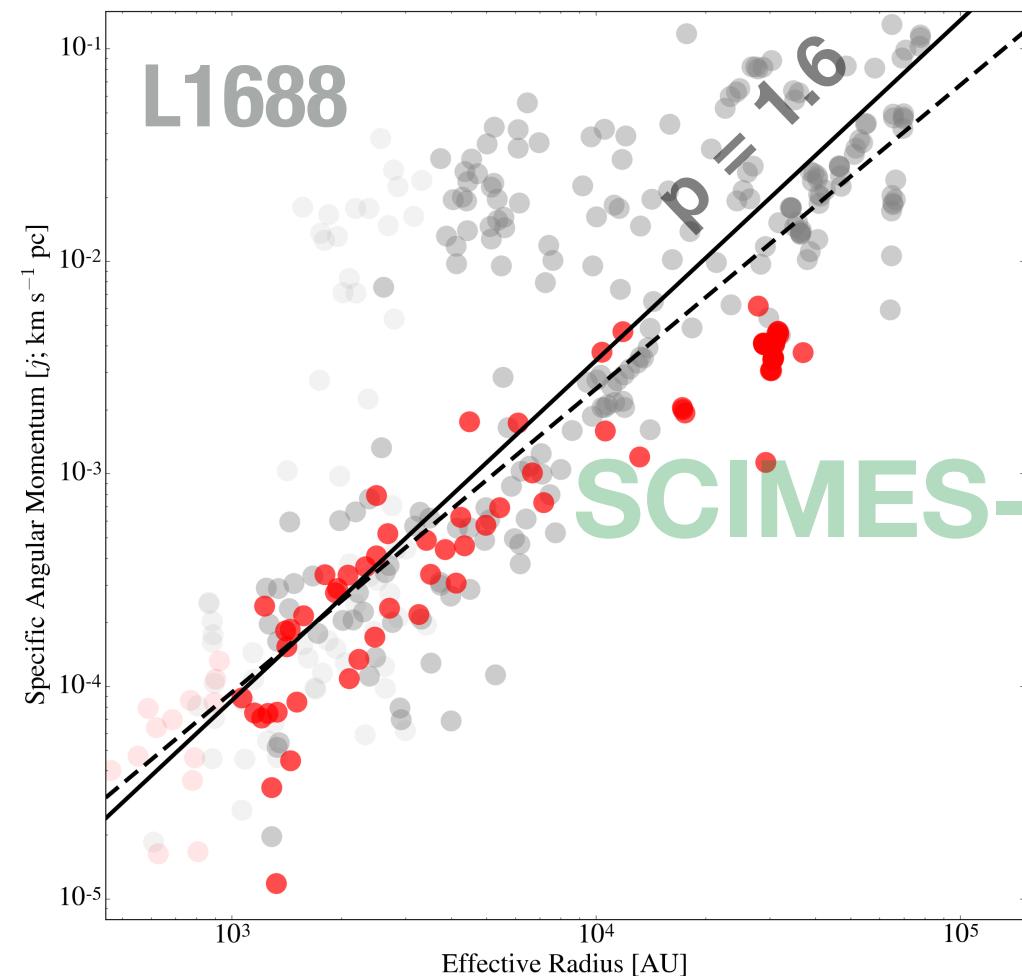
Resolved Features / Unresolved Features

Theil-Sen Regression

$p \sim 1.61$

DR1

Angular Momentum at the Smallest Scale



Resolved Features / Unresolved Features

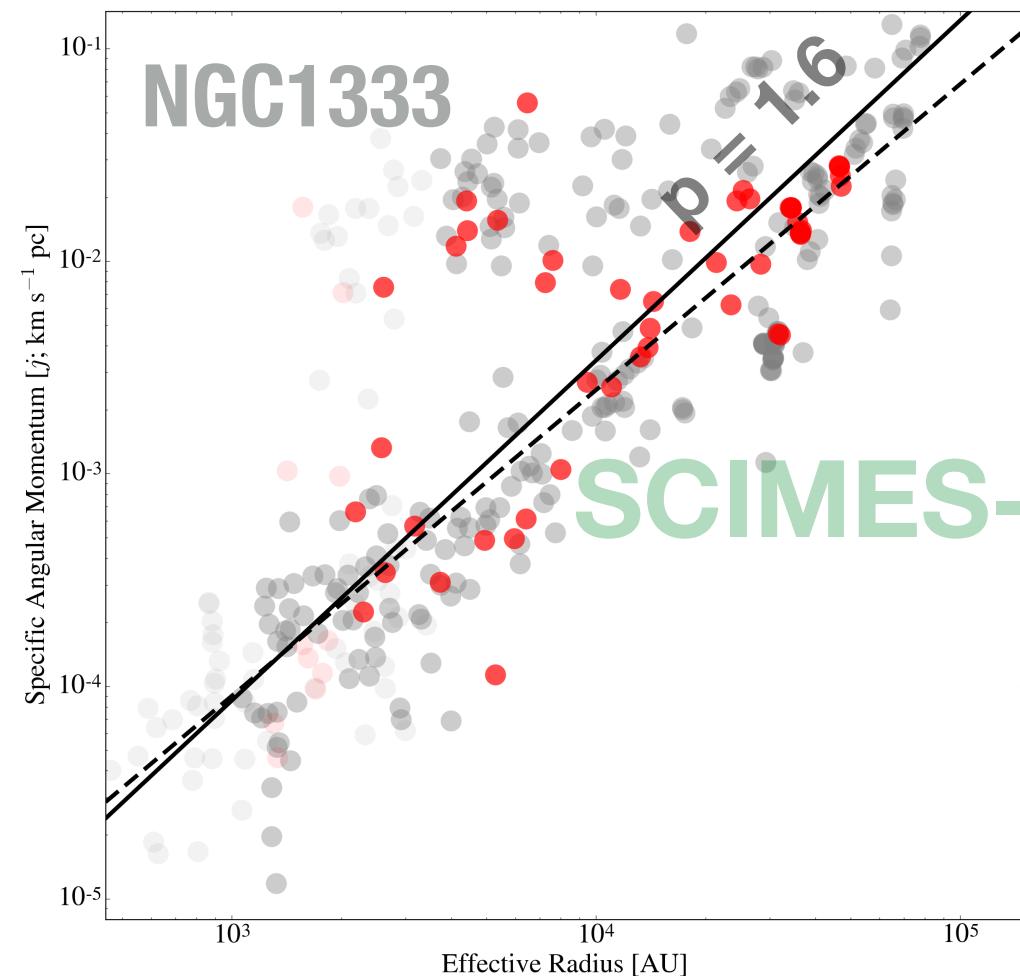
Resolved Features / Unresolved Features

Theil-Sen Regression

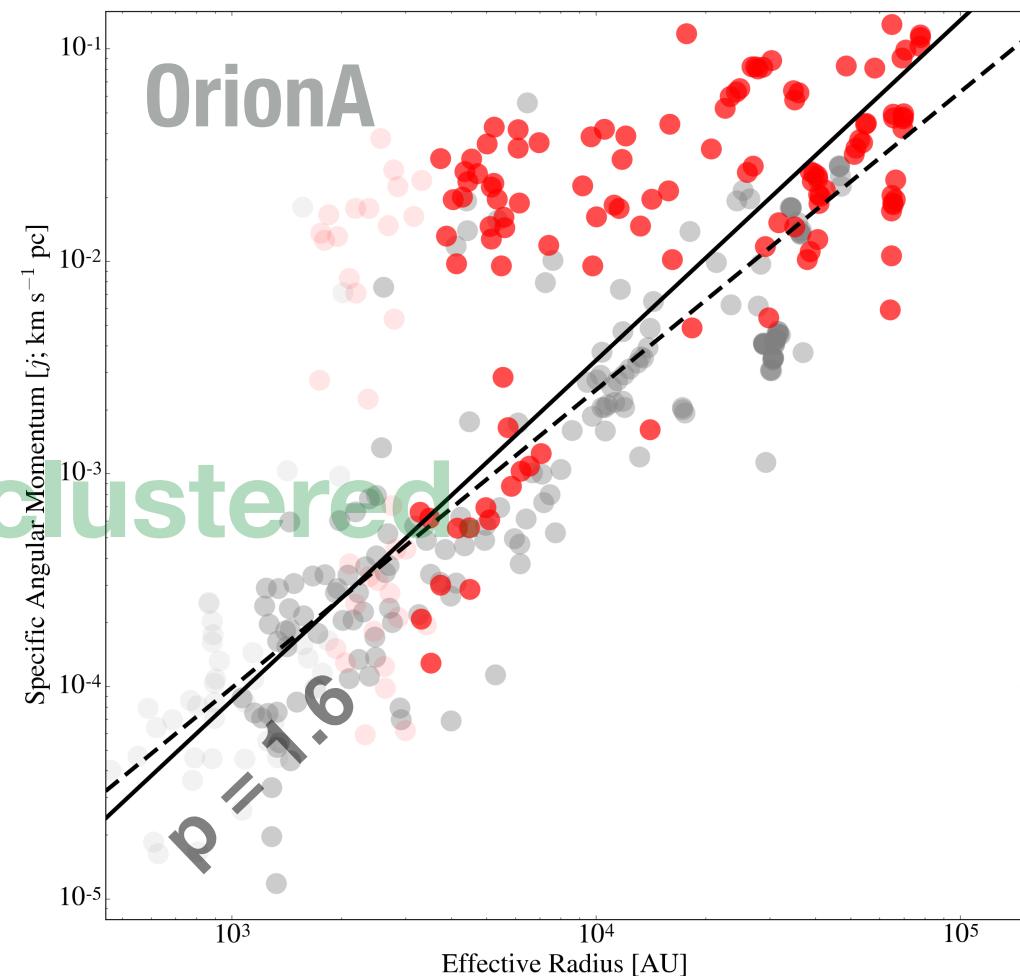
$p \sim 1.42$

DR1

Angular Momentum at the Smallest Scale

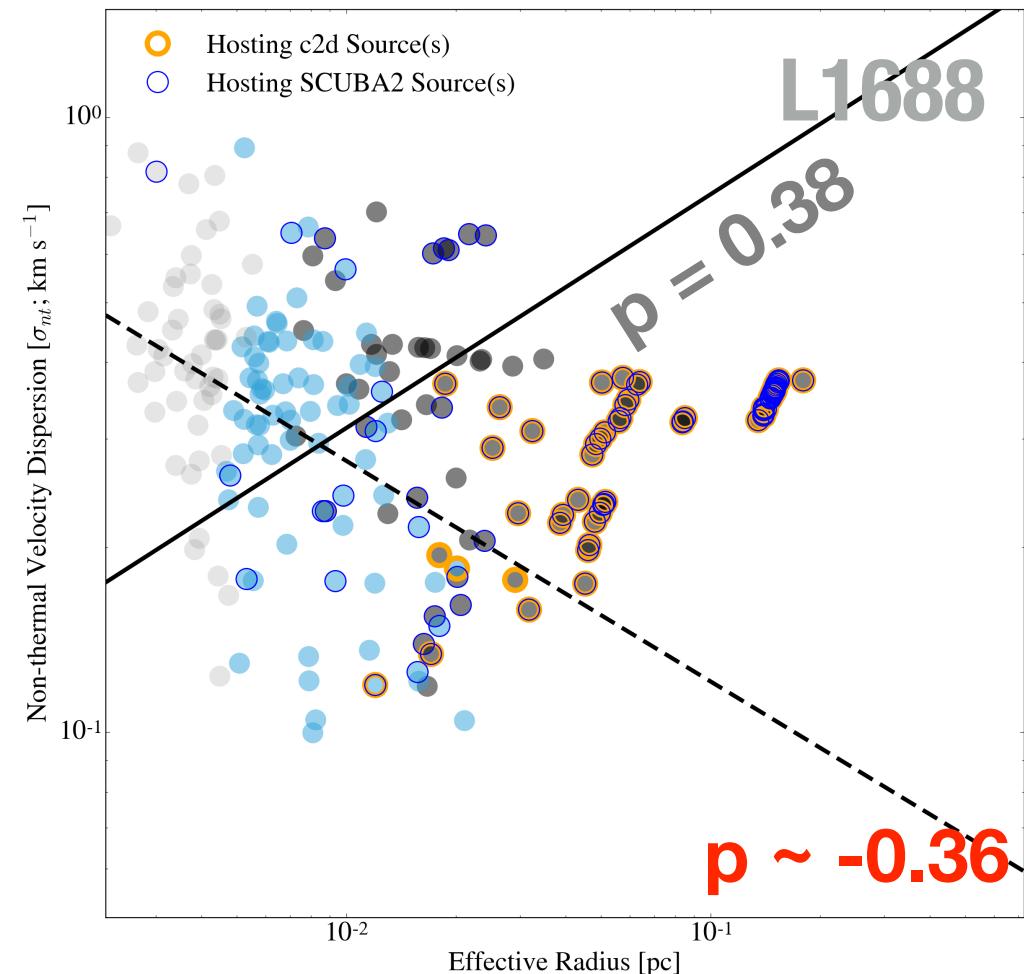


Resolved Features / Unresolved Features
Resolved Features / Unresolved Features

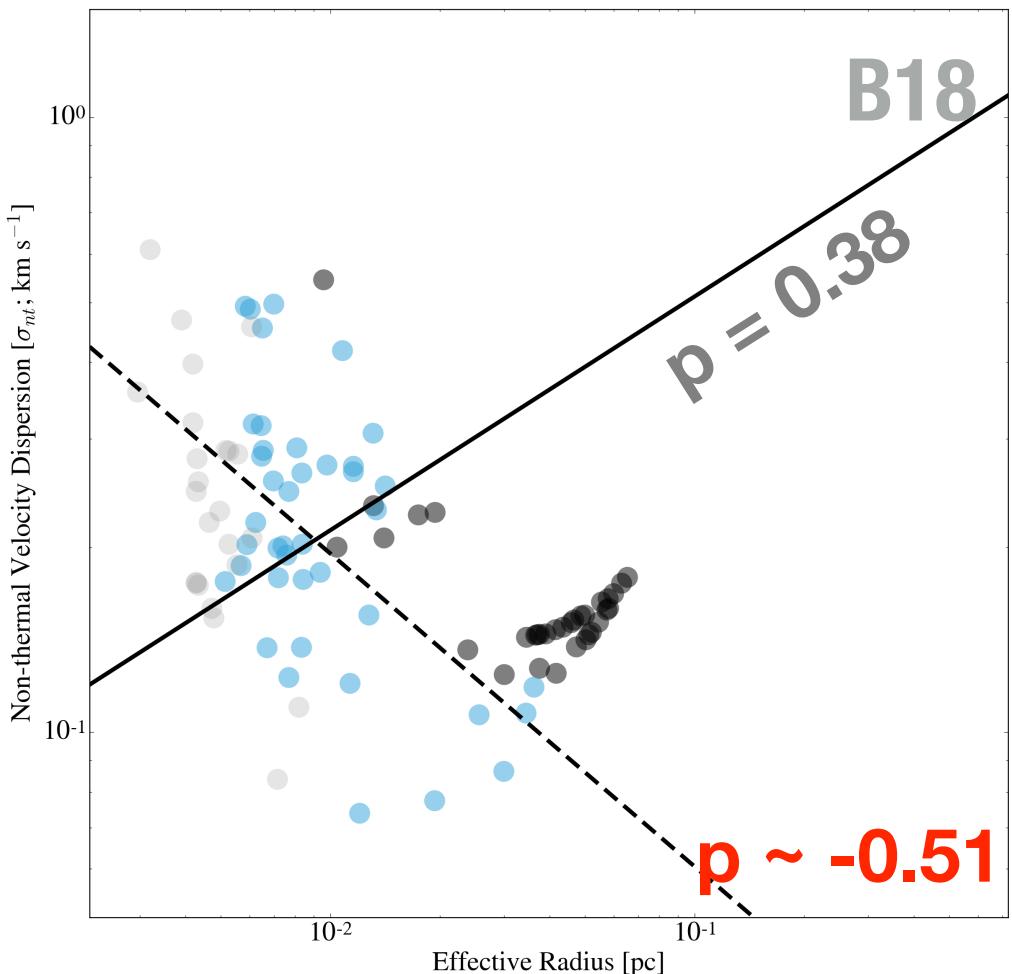


DR1

Larson's Laws



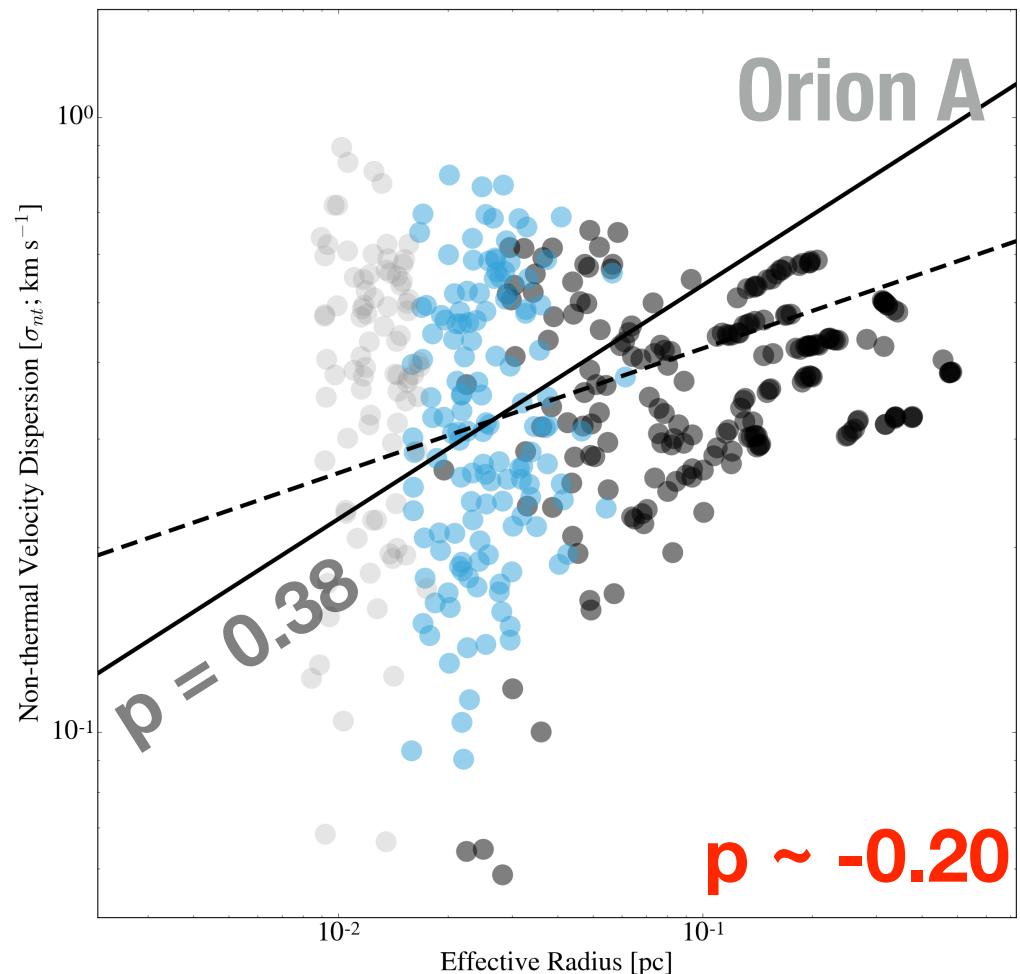
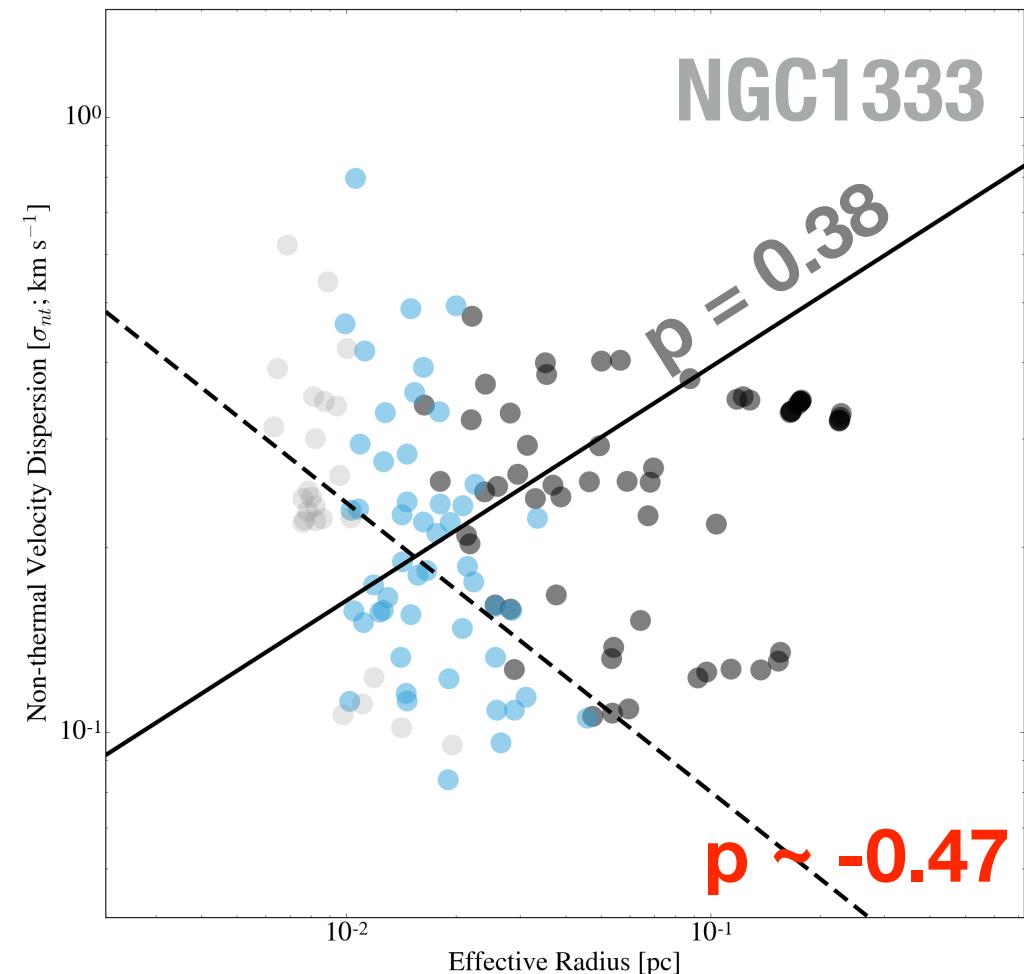
Resolved Branches / Resolved Leaves
Unresolved Features



Theil-Sen Regression

DR1

Larson's Laws

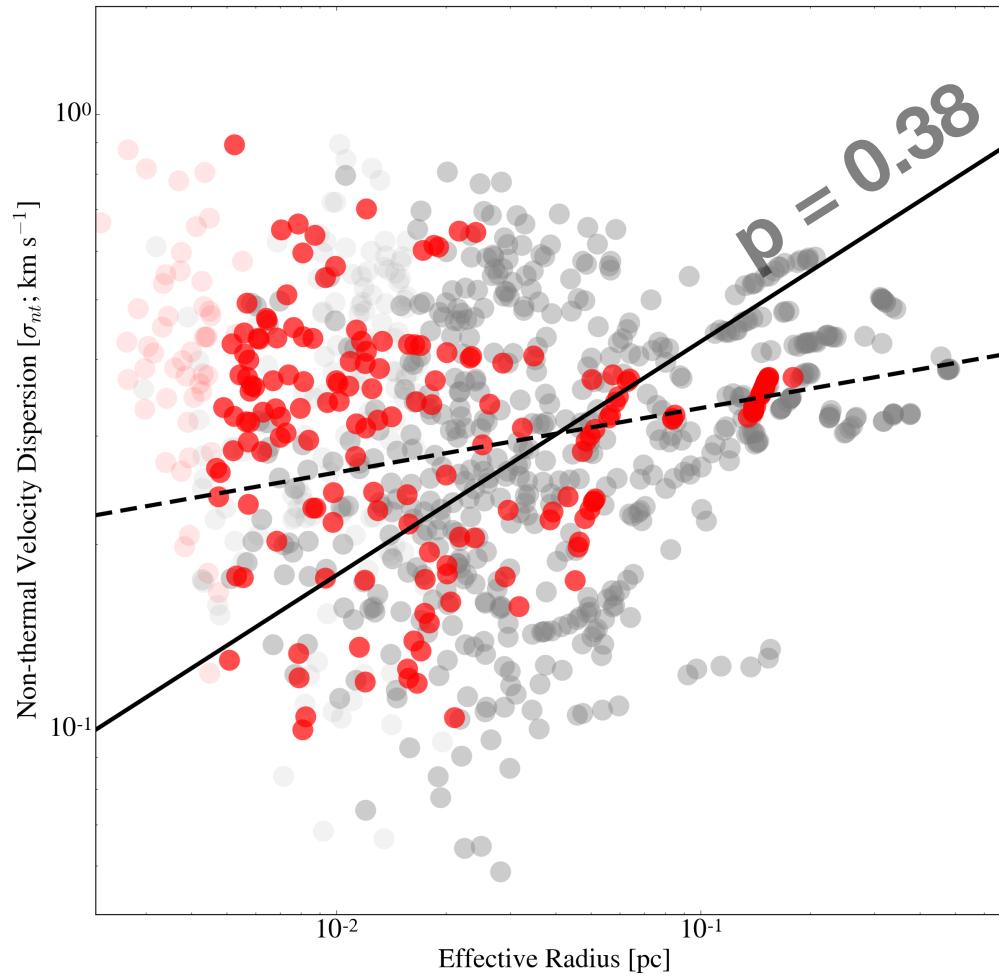


Resolved Branches / Resolved Leaves
Unresolved Features

Theil-Sen Regression

L1688 and DR1

Larson's Laws



Resolved Features / Unresolved Features

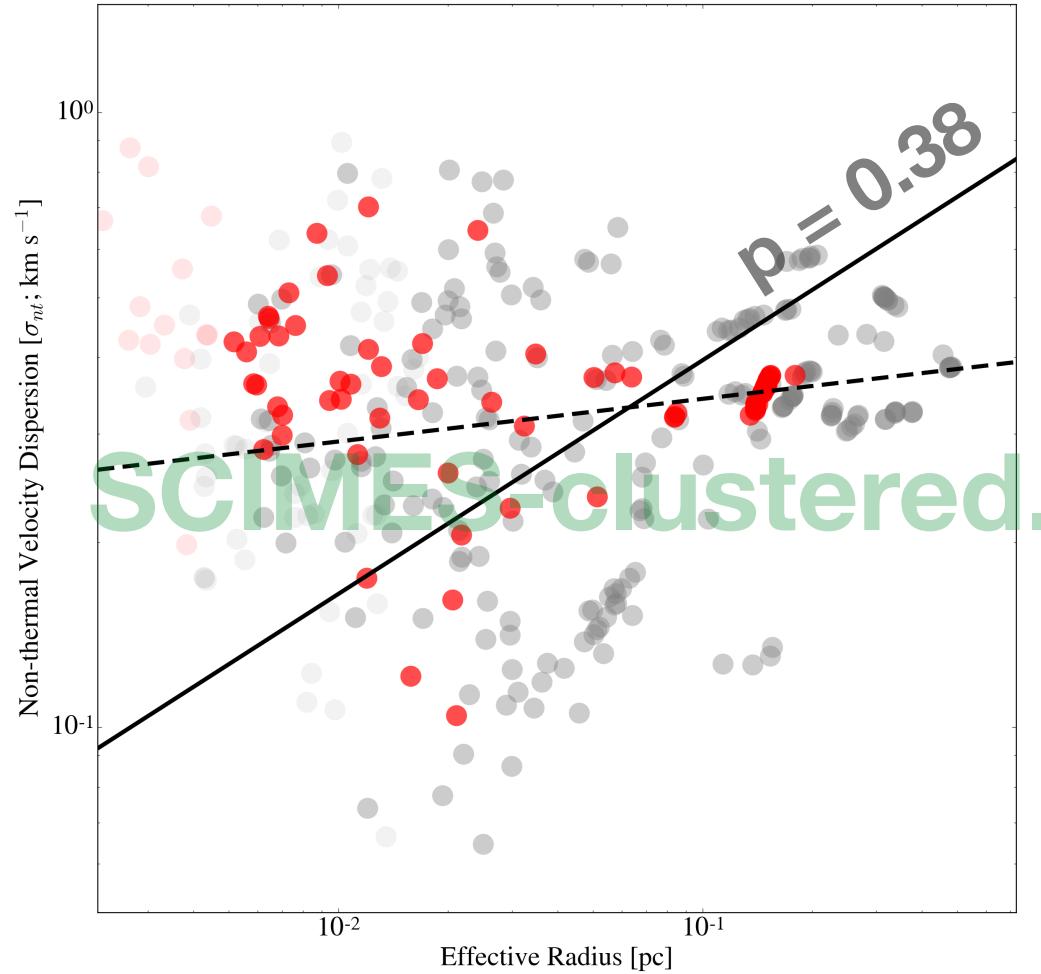
Resolved Features / Unresolved Features

Theil-Sen Regression

$p \sim 0.10$

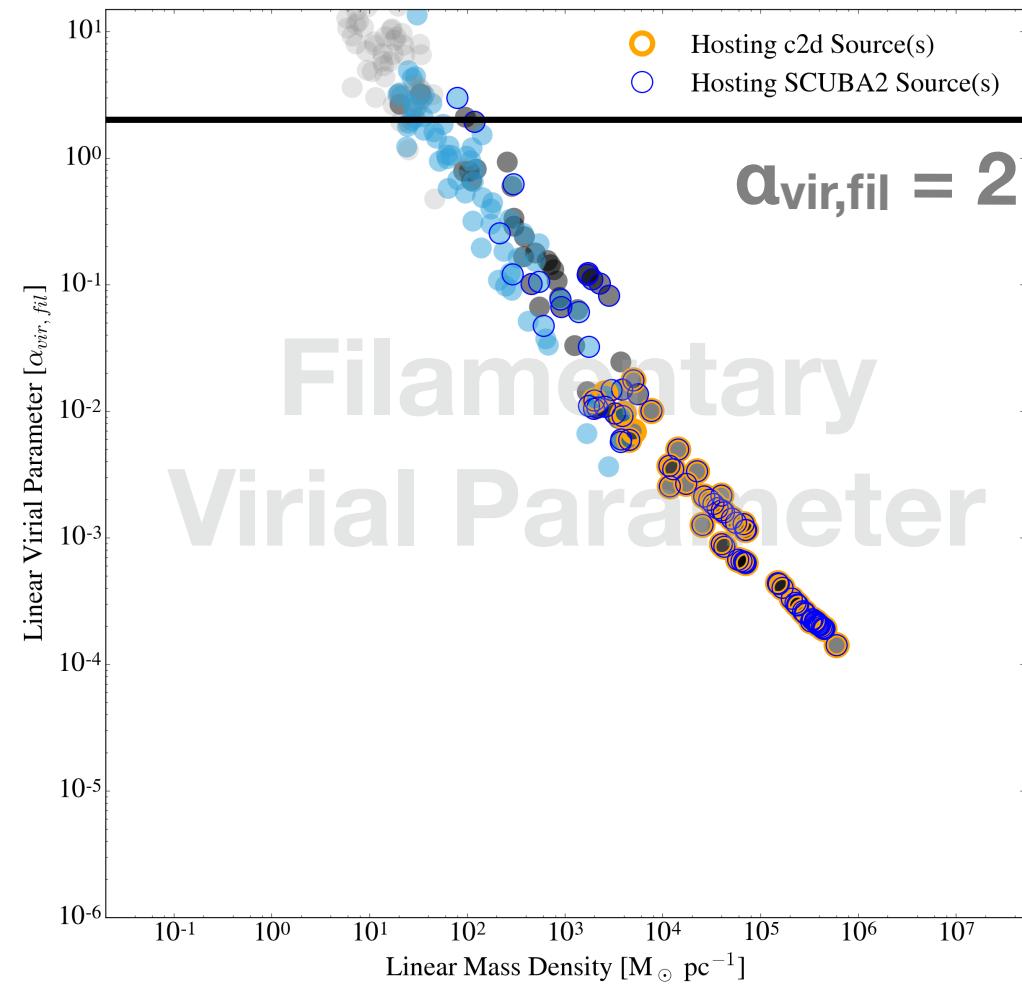
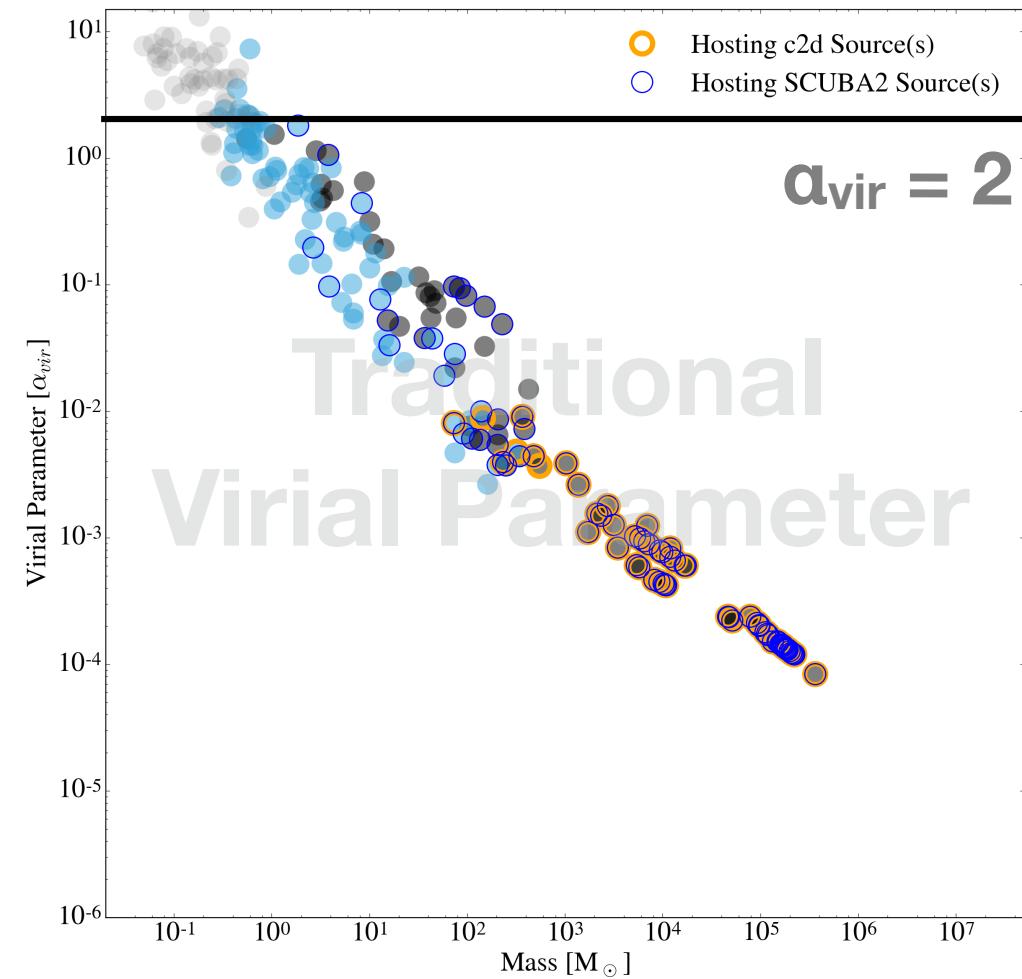
L1688 and DR1

Larson's Laws



L1688

Virial Analysis



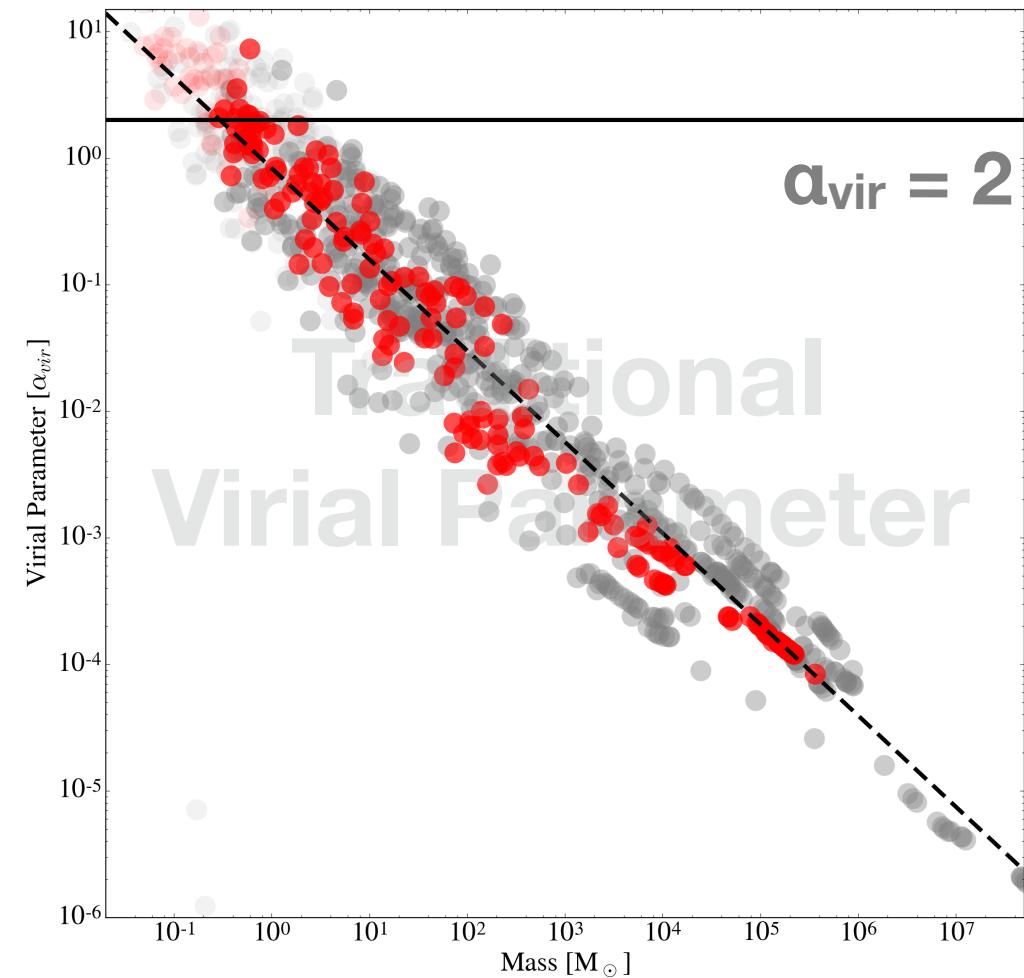
Resolved Branches / Resolved Leaves

Unresolved Features

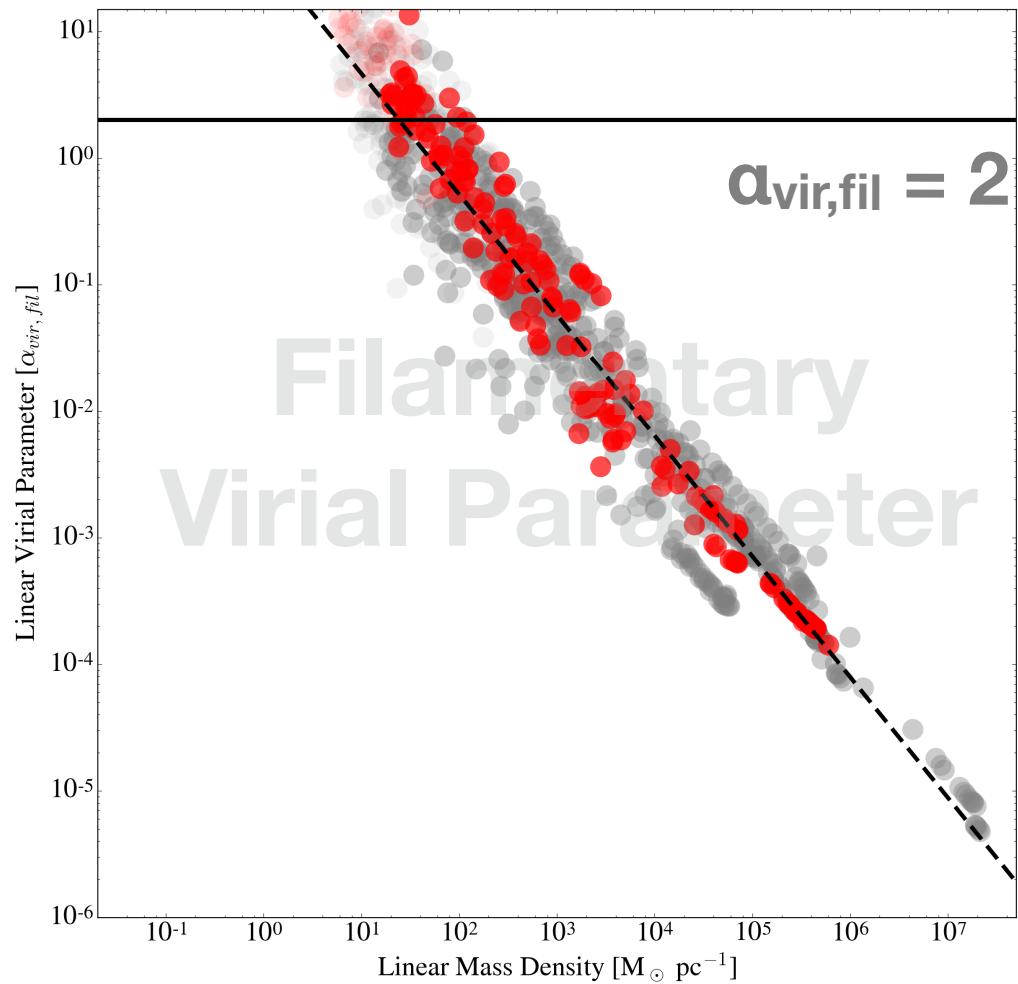
See Friesen et al. (2016), for example.

L1688 and DR1

Virial Analysis



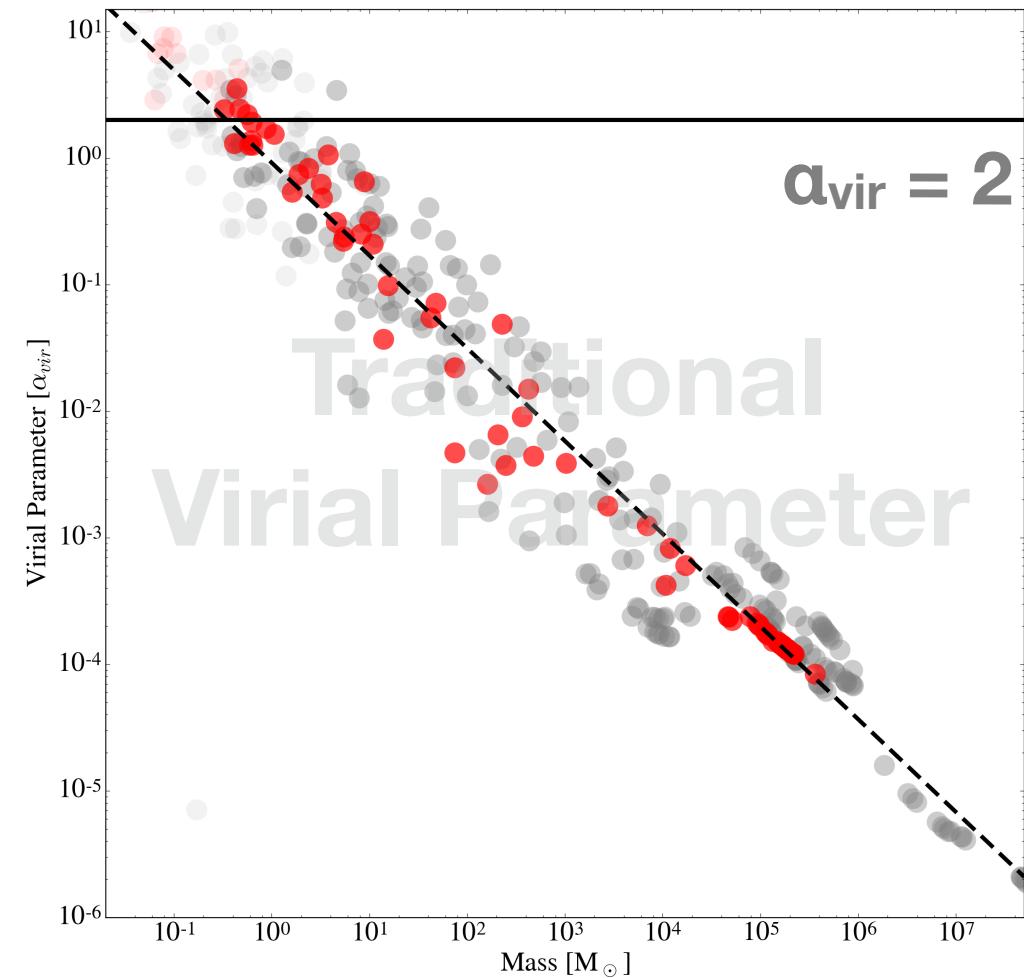
Resolved Features / Unresolved Features
Resolved Features / Unresolved Features



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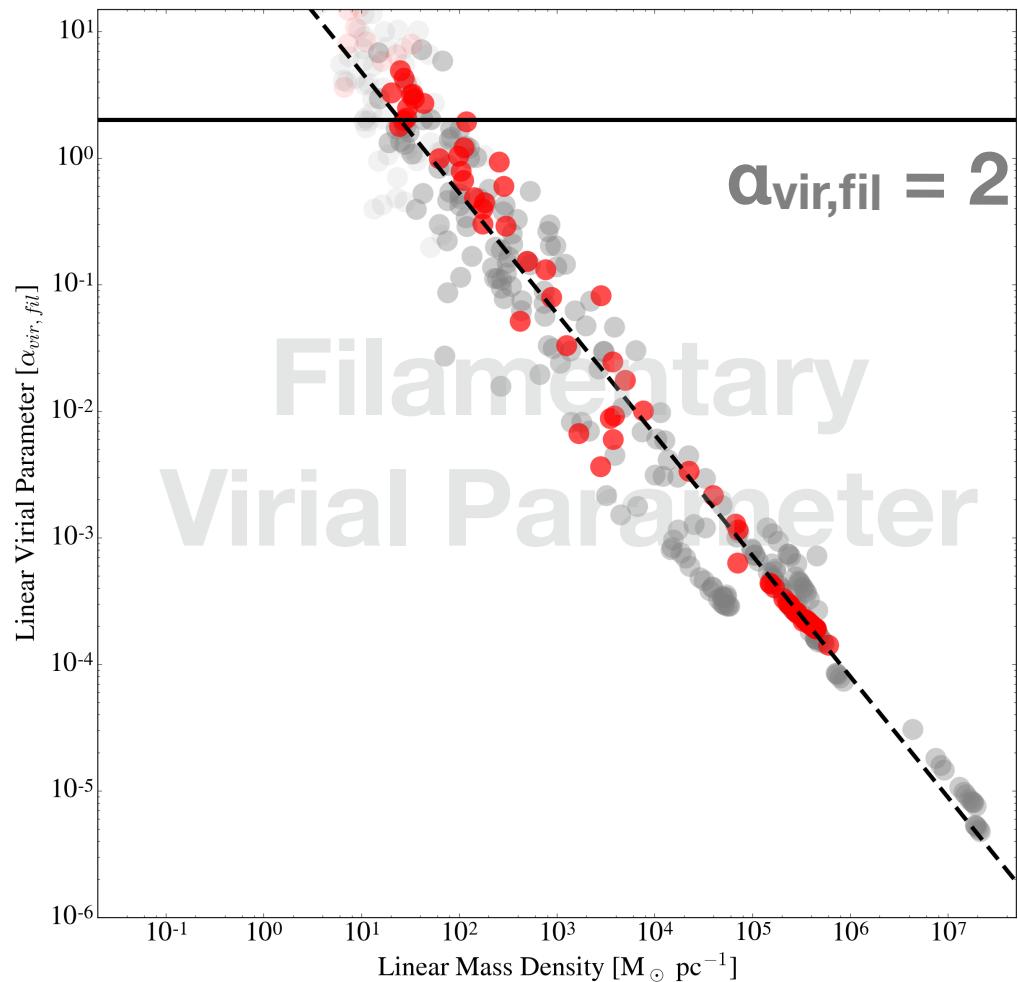
L1688 and DR1

Virial Analysis



Resolved Features / Unresolved Features

Resolved Features / Unresolved Features



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	ID	RA	Dec	M	Axis_maj	Axis_min	R_eff	PA	Area	V_cen	V_RMS	V_RMS_deno	
0	0	246.776483	-24.526928	35.9165124	0.25620	0.14950	0.19380	99.450	0.242486	3.608217	0.381713	0.450905	
1	1	246.867686	-24.697819	17163.264699	0.102117	0.030154	0.063784	119.260956	0.056460	3.695094	0.378250	0.412733	
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3	3	246.873026	-24.700436	21801.18700	0.032030	0.019000	0.043300	100.770	0.332758	0.355190	0.388304		
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15	15	246.890649	-24.703317	2128.105402	0.077715	0.019169	0.038597	122.447352	0.018895	3.820074	0.232640	0.316122	
16	16	246.760236	-24.490570	213138.882130	0.205740	0.138188	0.152886	121.309900	0.182090	3.605665	0.379524	0.393157	
17	17	246.856160	-24.490339	138286.040	0.018728	0.012641	0.015793	115.541511	0.039204	1.120264	0.030502	0.203879	
18	18	246.761613	-24.490339	206429.178873	0.202494	0.113784	0.151792	121.072281	0.178641	3.611884	0.377567	0.380645	
19	19	246.759021	-24.490250	216002.100206	0.206220	0.112002	0.152065	121.101575	0.182220	3.601102	0.381210	0.395067	

Other Physical Properties
Position
Aspect Ratio (Major/Minor Axes)
Velocity Centroid
Velocity Dispersion
Abundance of (p-)NH₃
Kinetic Temperature
Dust Temperature
... and more!

Data

<https://github.com/hopehhchen/DendroCatalogs.git>

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