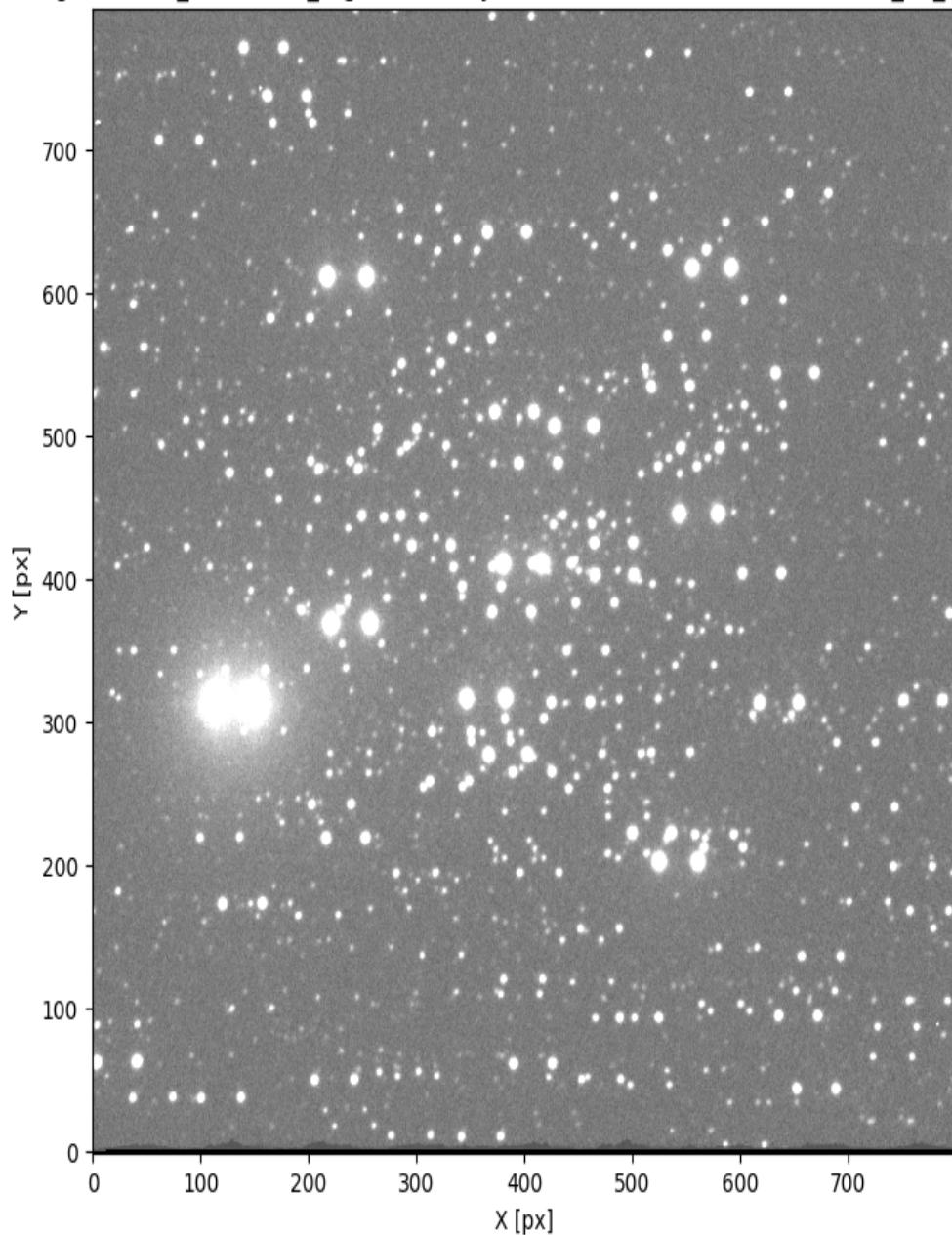
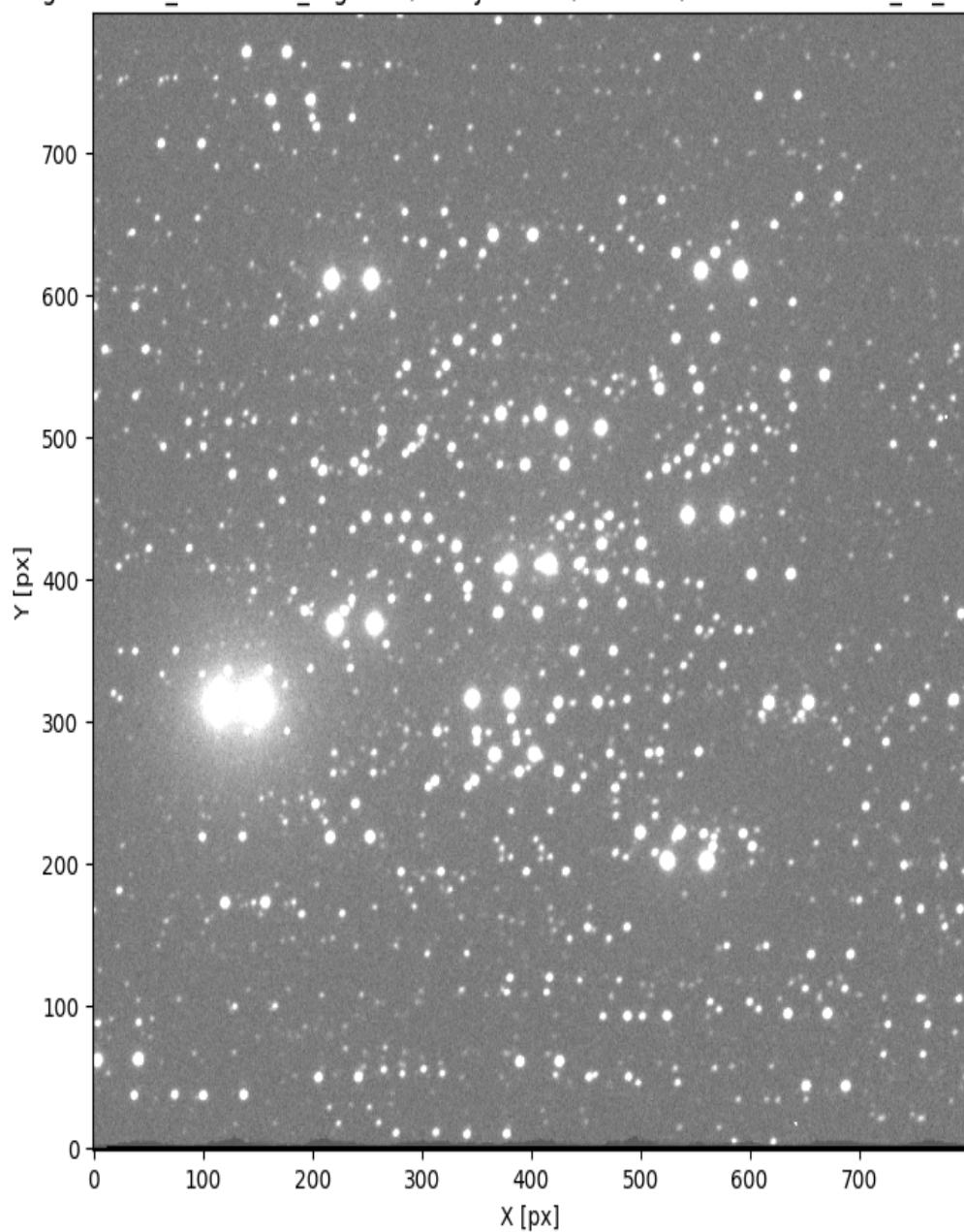


1. Imágenes originales

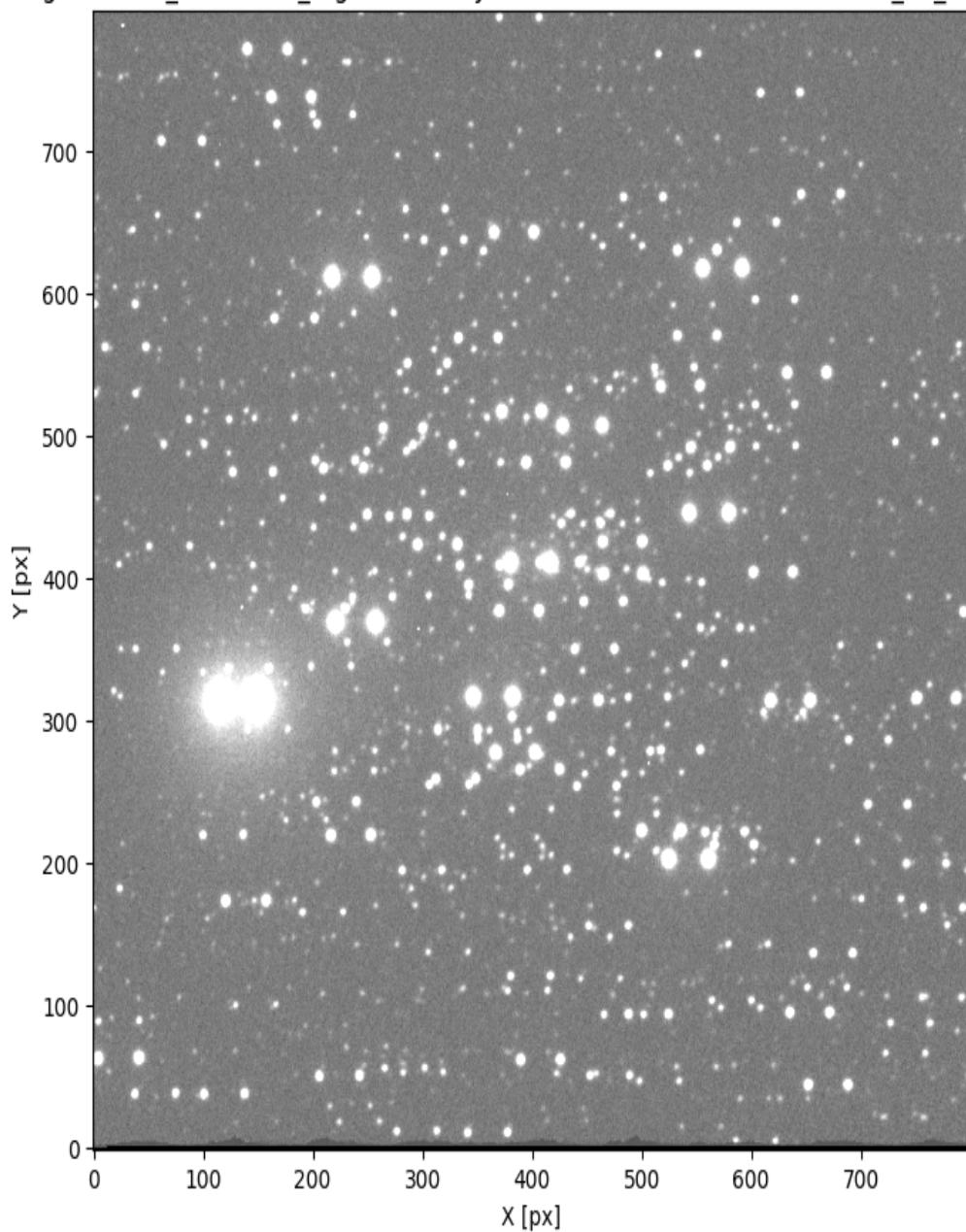
Reference Image noche1_20230720_organize/XMMJ183328/BessellR/caf-20230721-00_20_32-sci-blap_b_f.fits



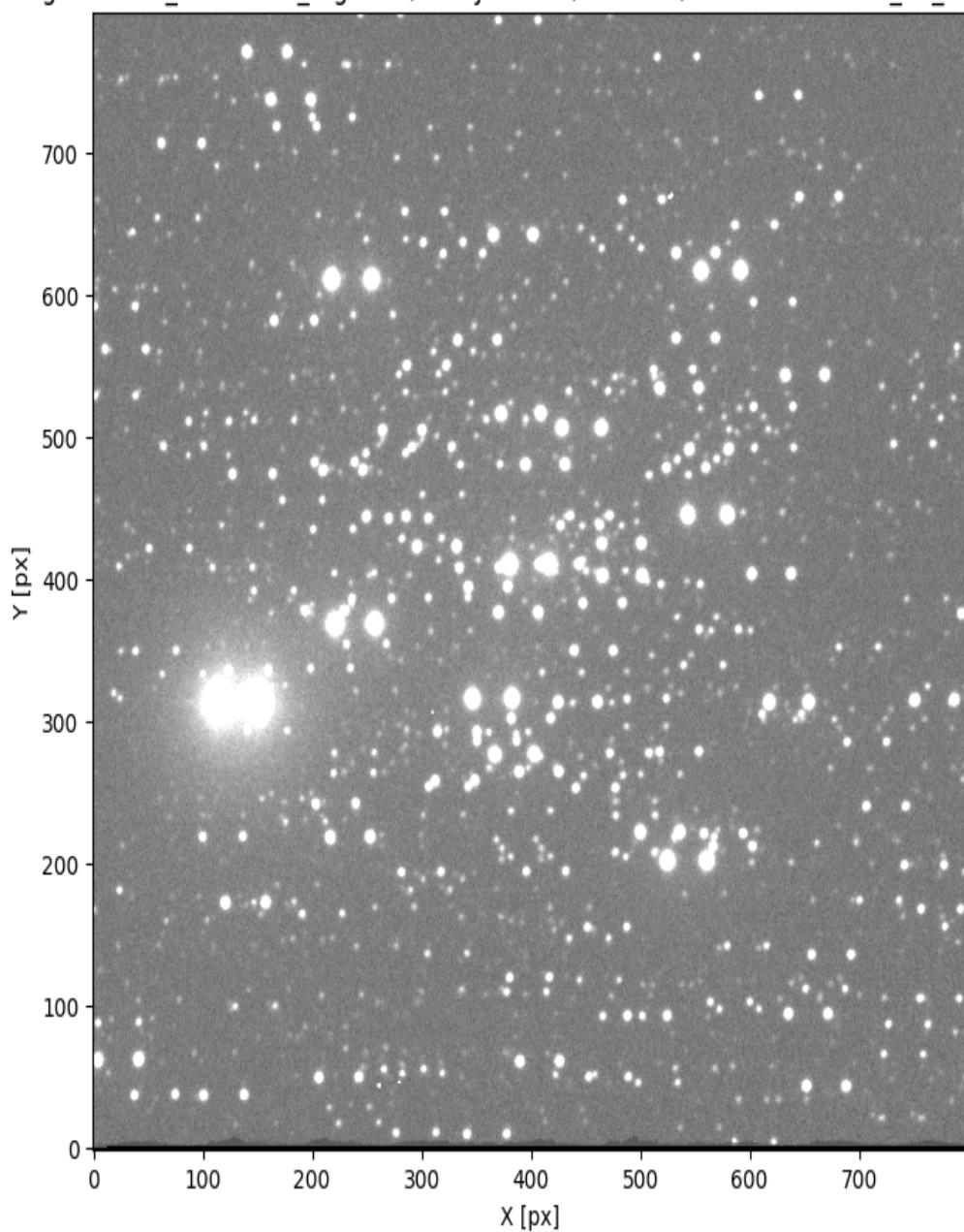
Original Image noche1_20230720_organize/XMMJ183328/BesselR/caf-20230721-00_21_20-sci-blap_b_f.fits



Original Image noche1_20230720_organize/XMMJ183328/BesselR/caf-20230721-00_22_08-sci-blap_b_f.fits

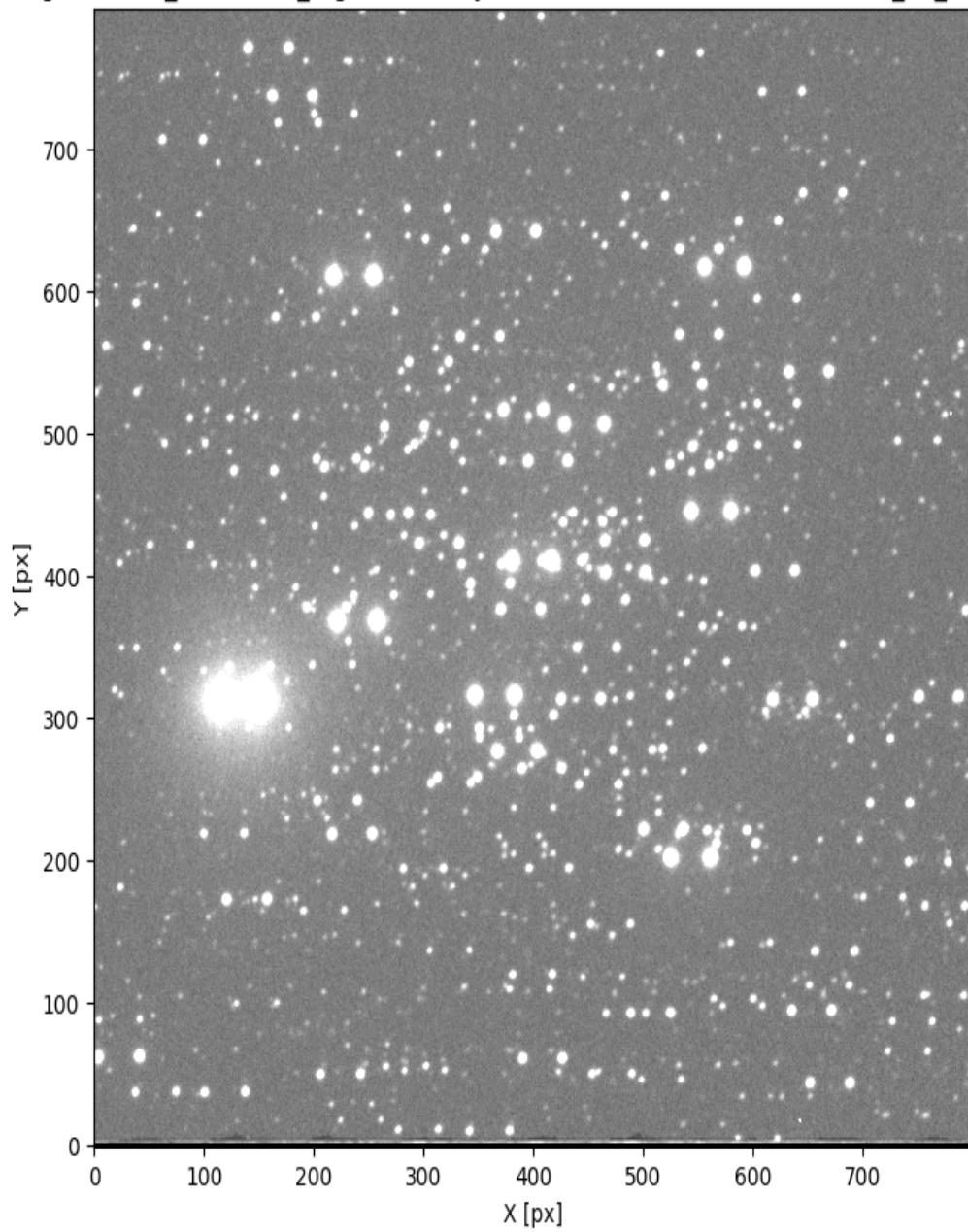


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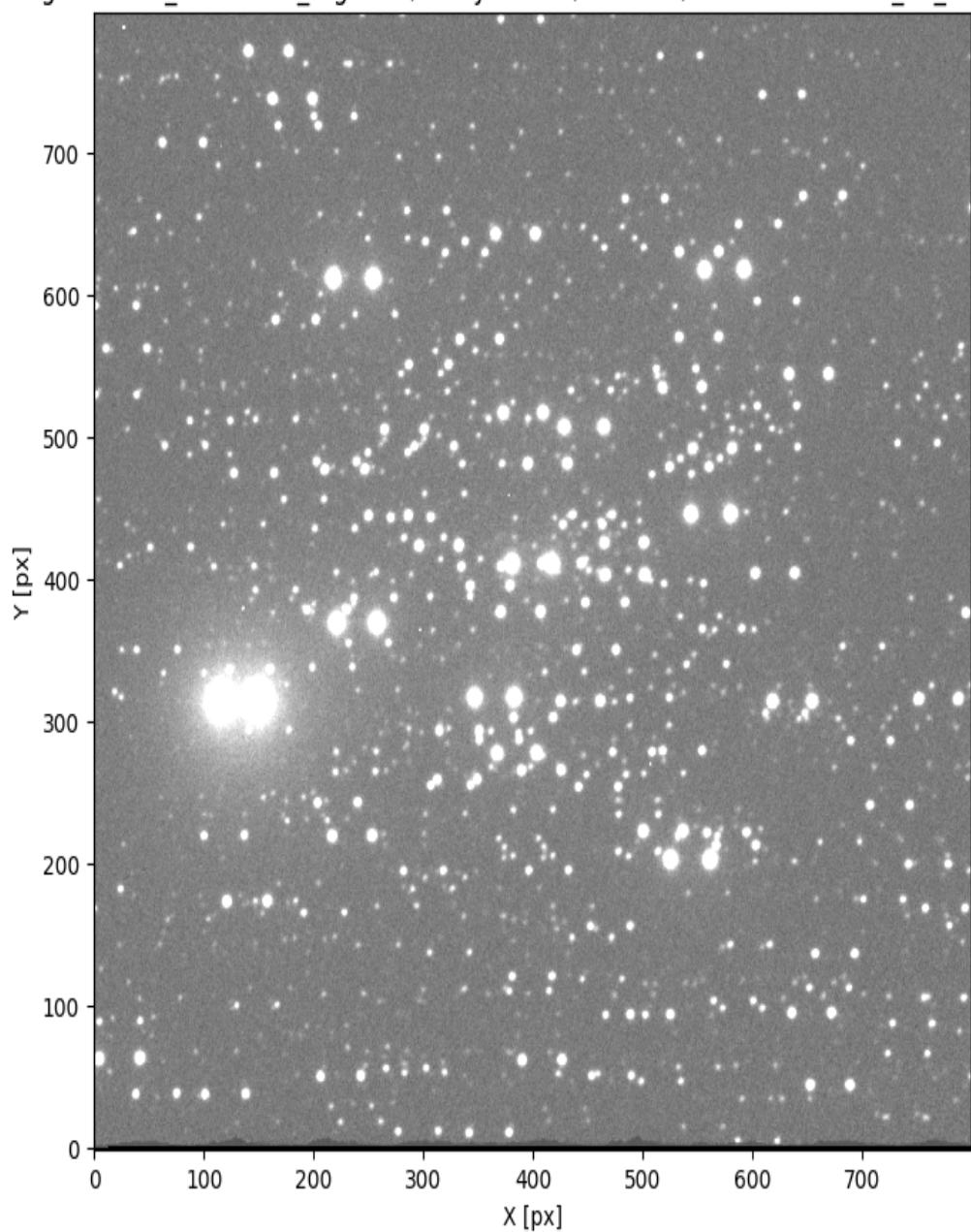


2. Imágenes alineadas

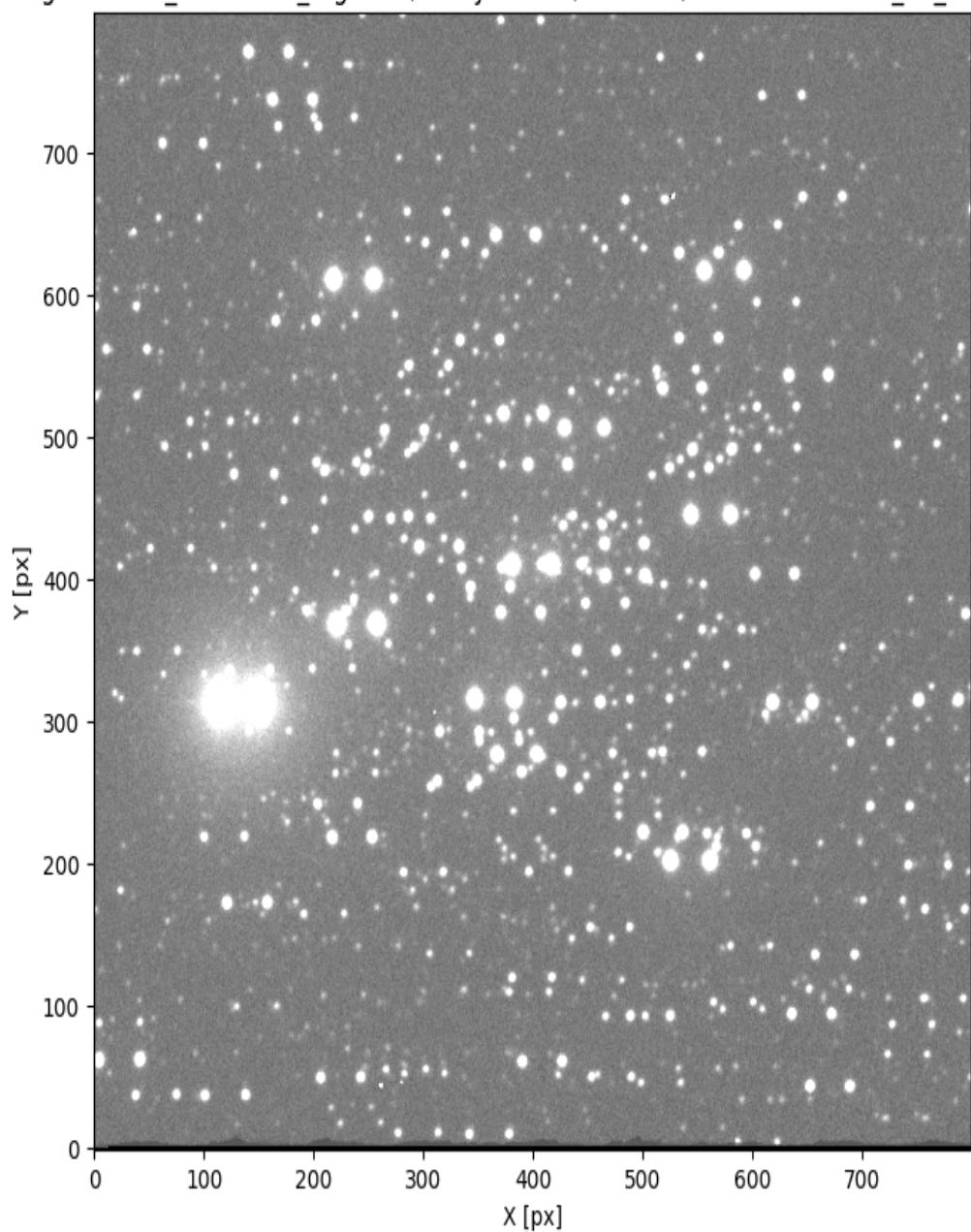
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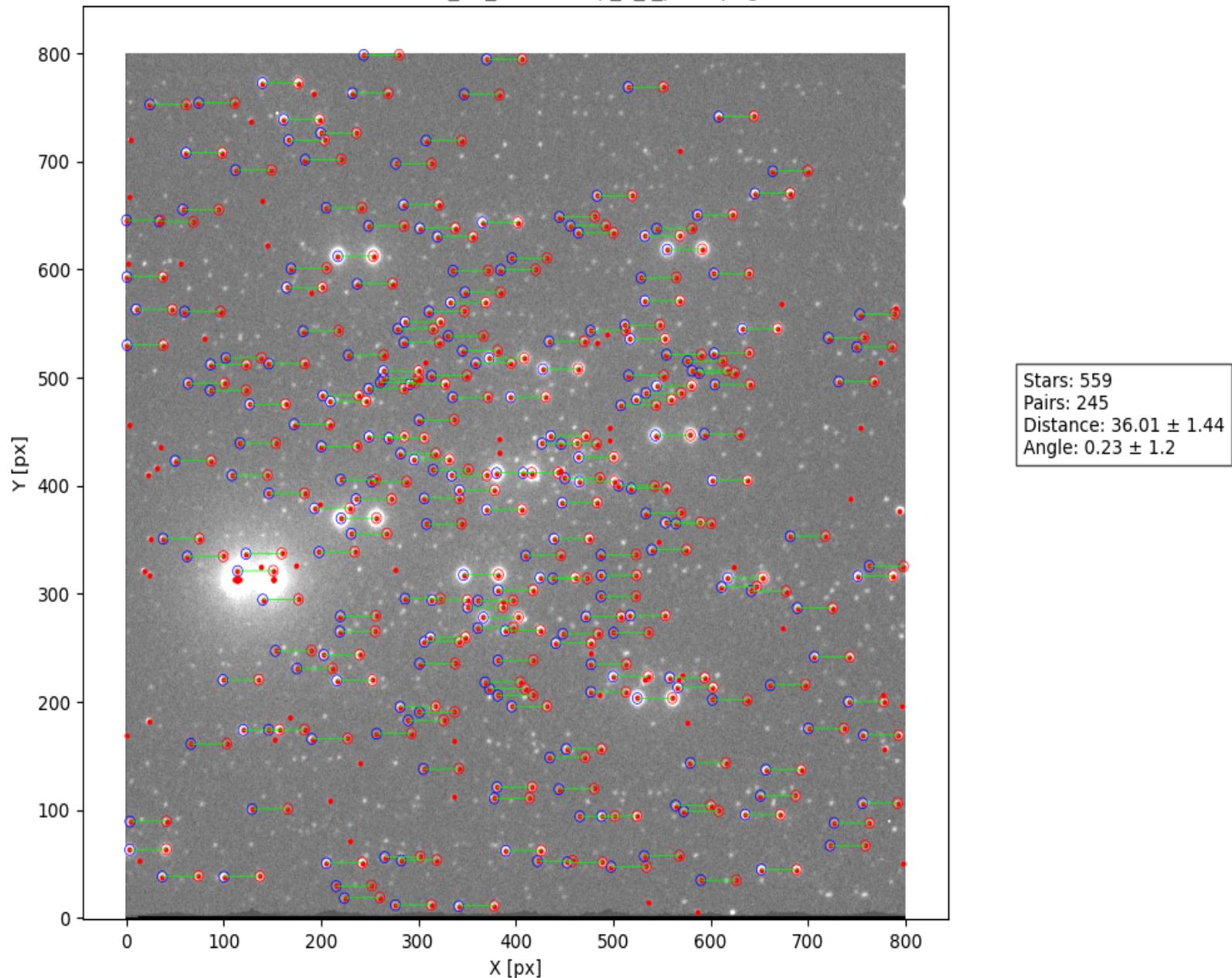


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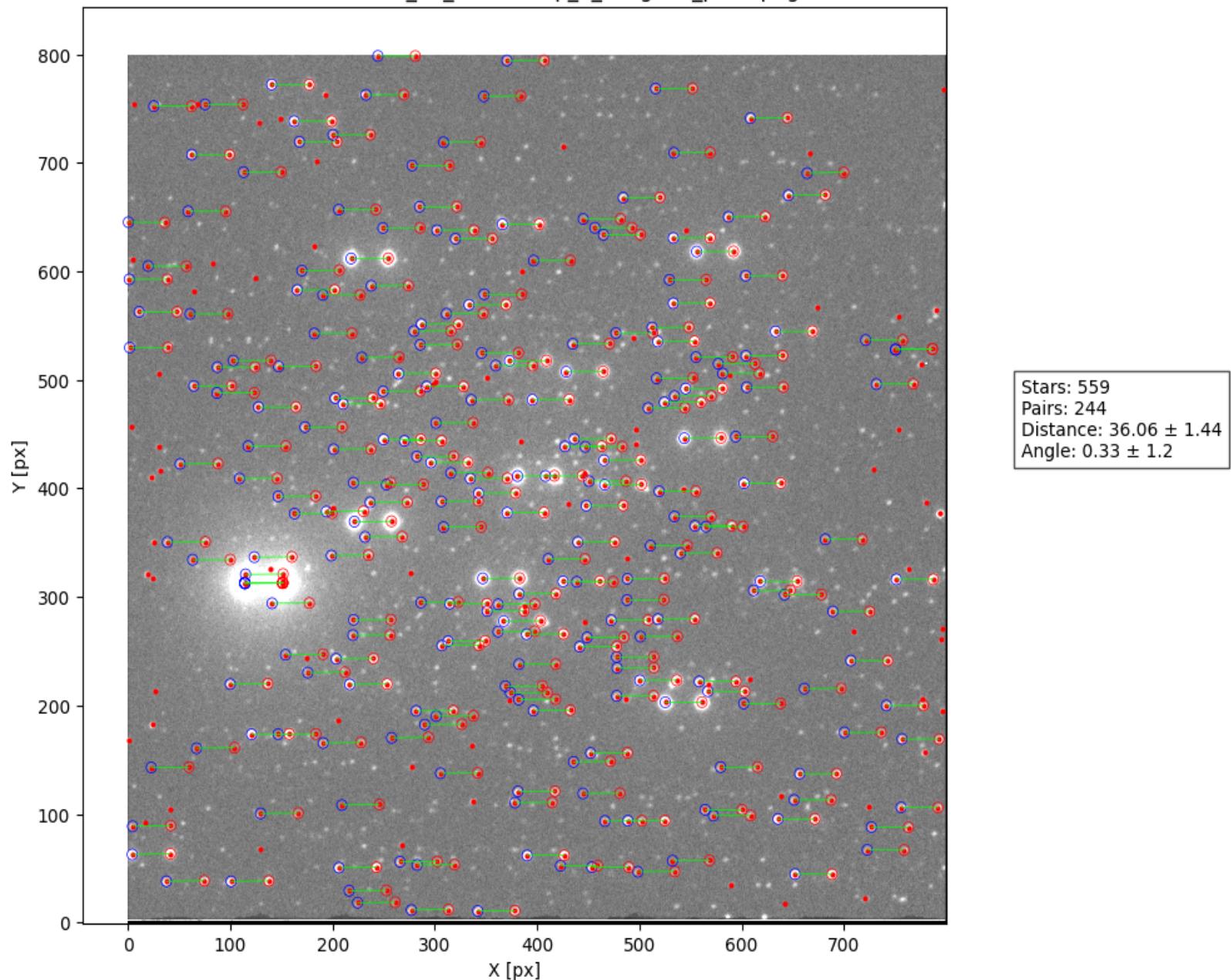


3. Imágenes con pares identificados

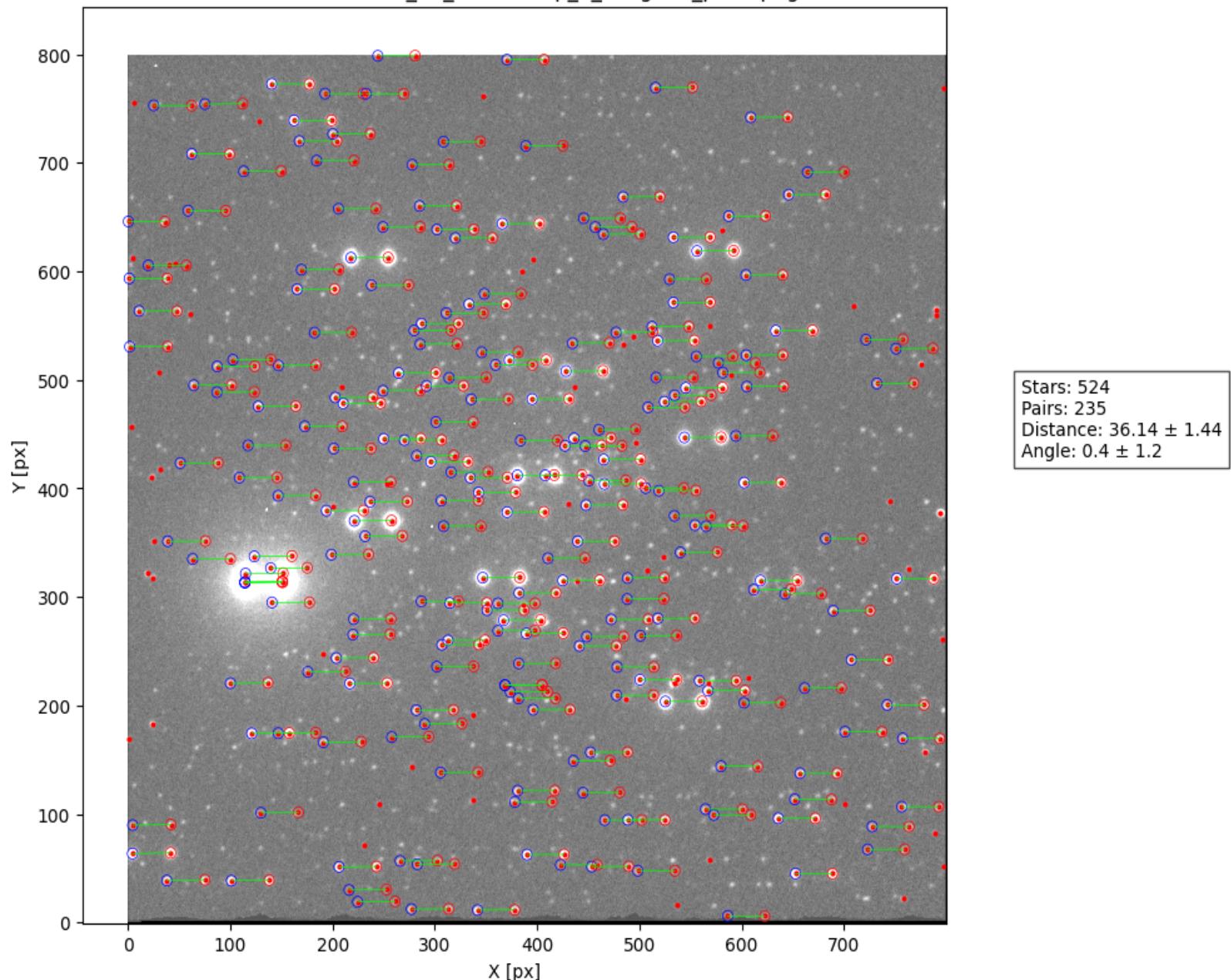
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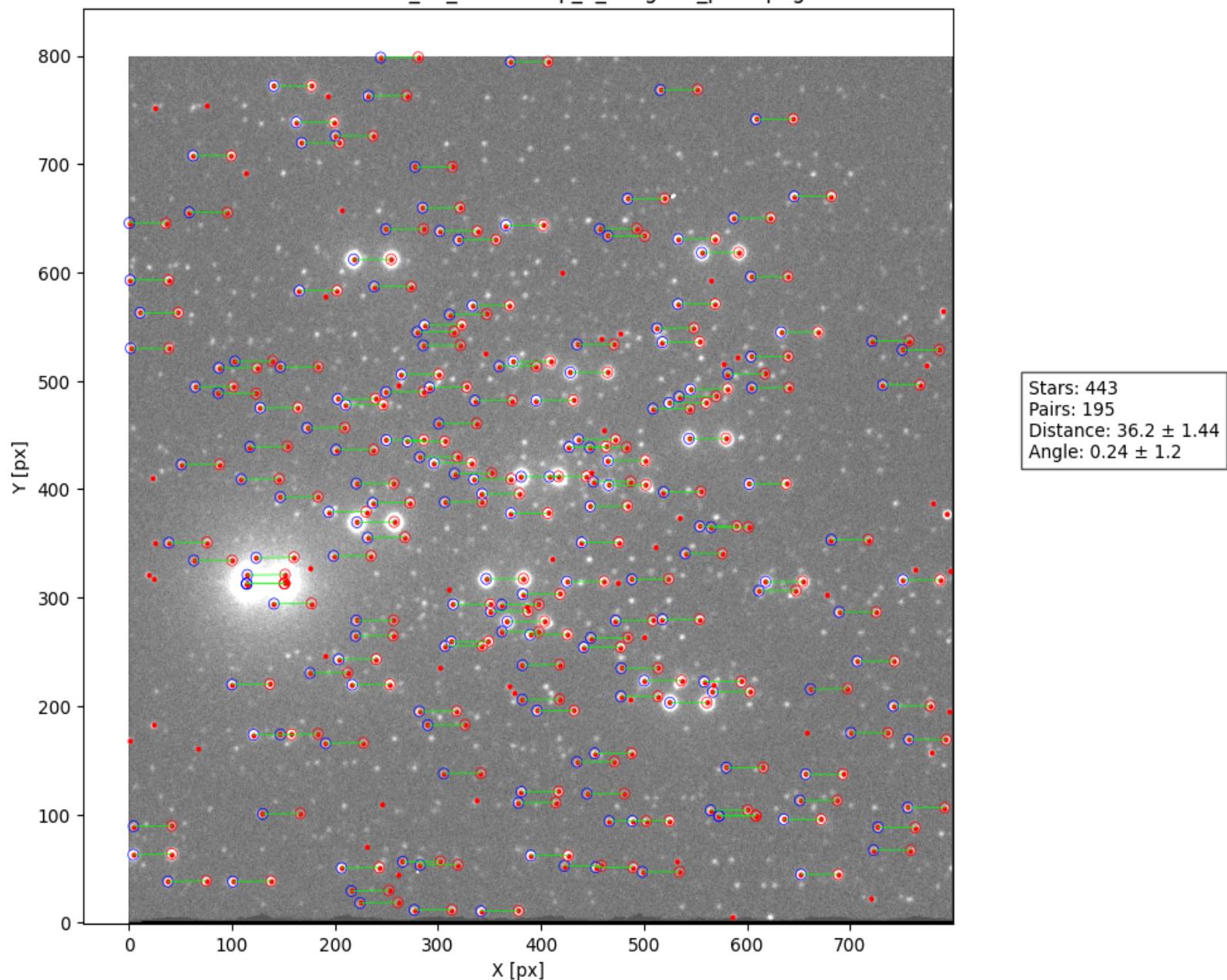
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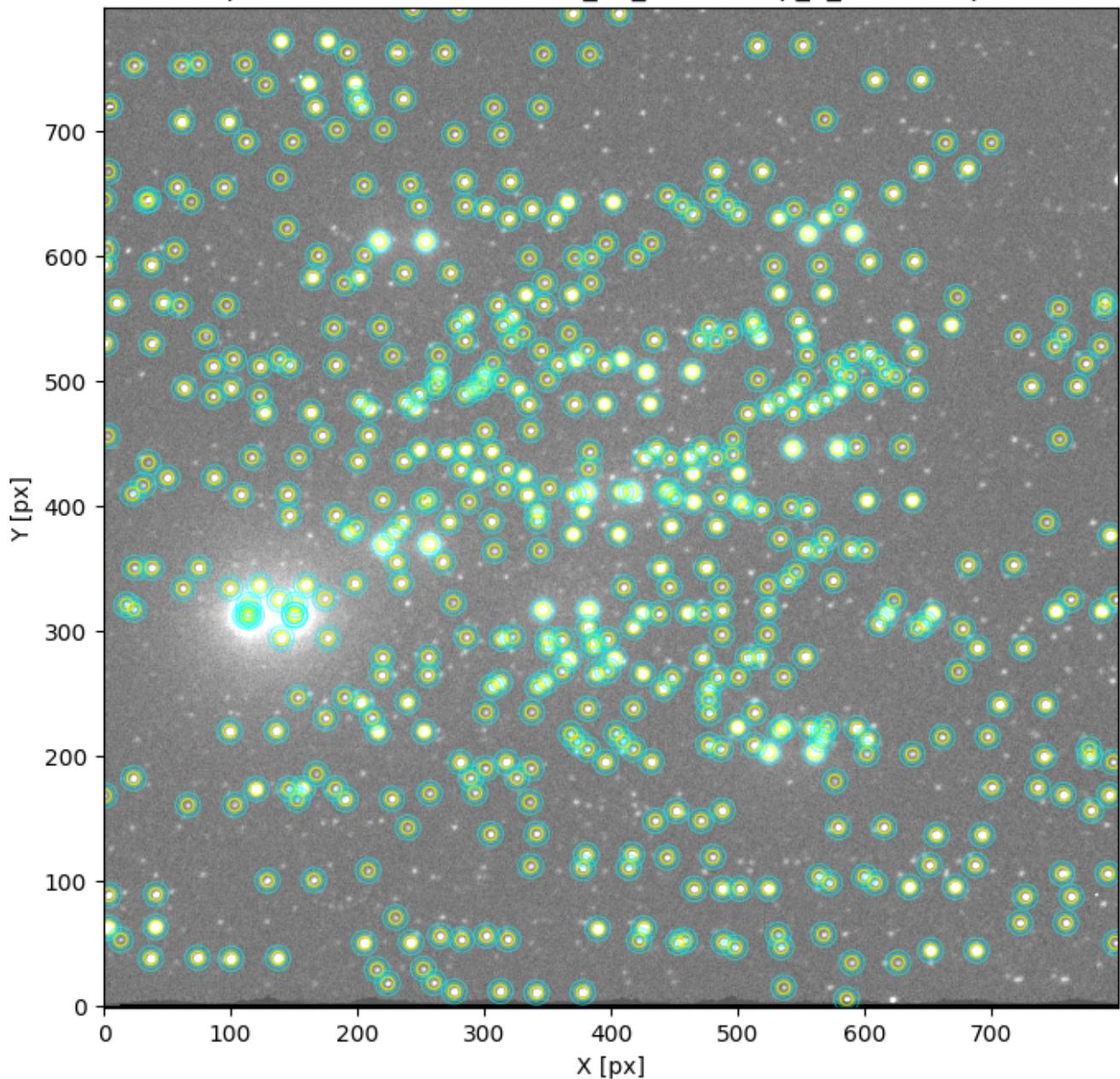


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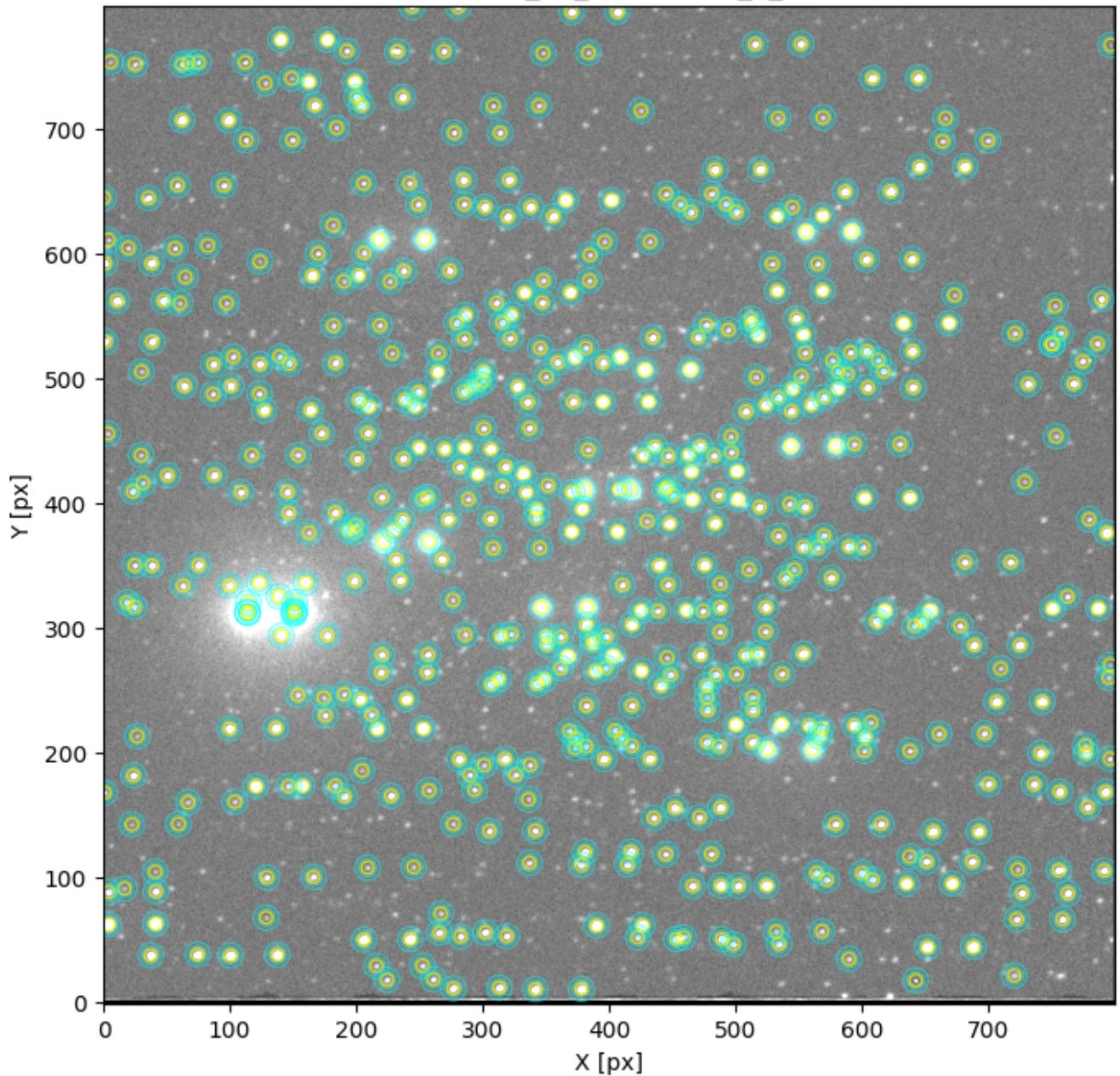


4. Fotometría — Aperturas

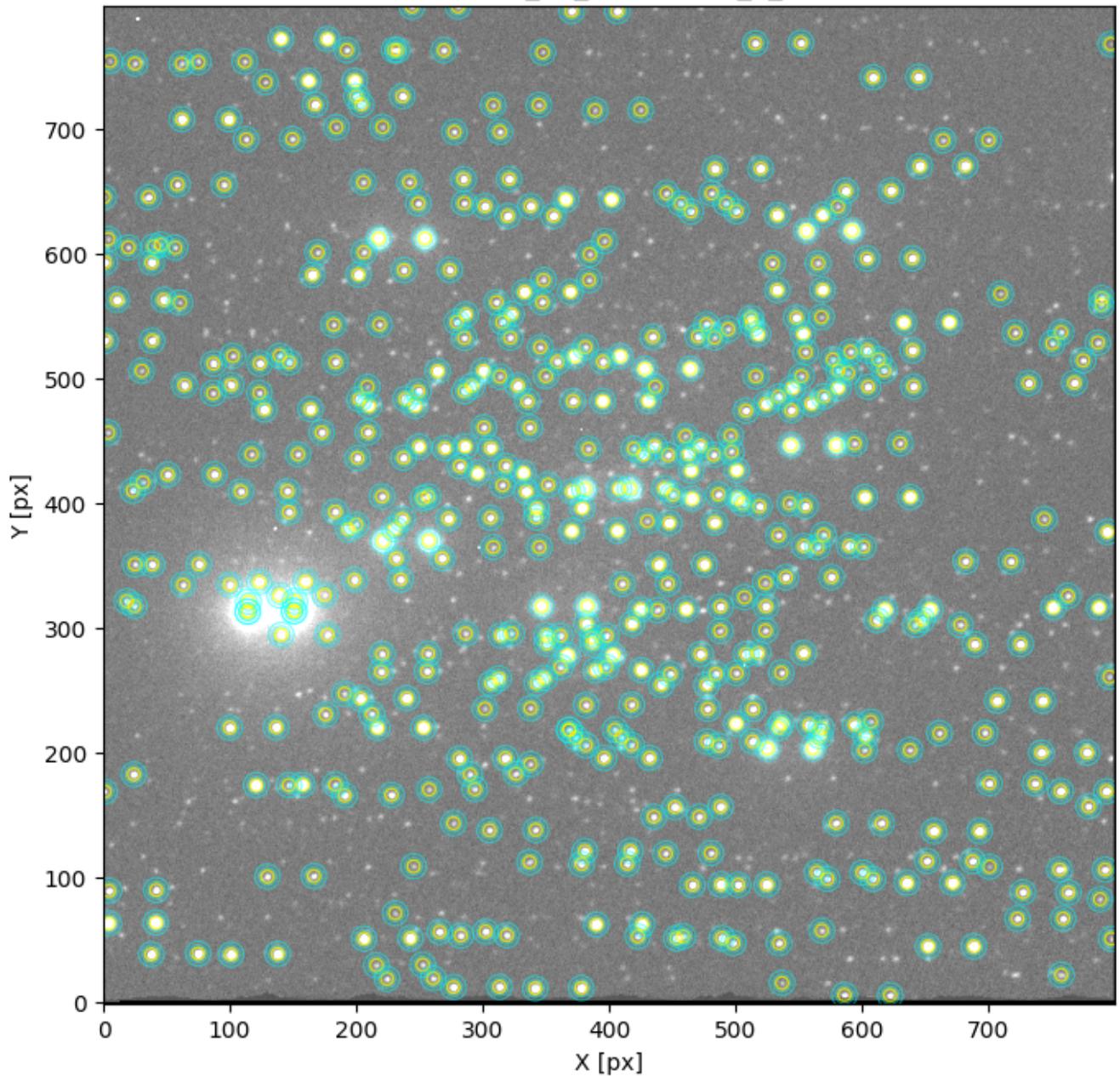
Apertures caf-20230721-00_20_32-sci-blap_b_f.fits ($r=5\text{px}$)



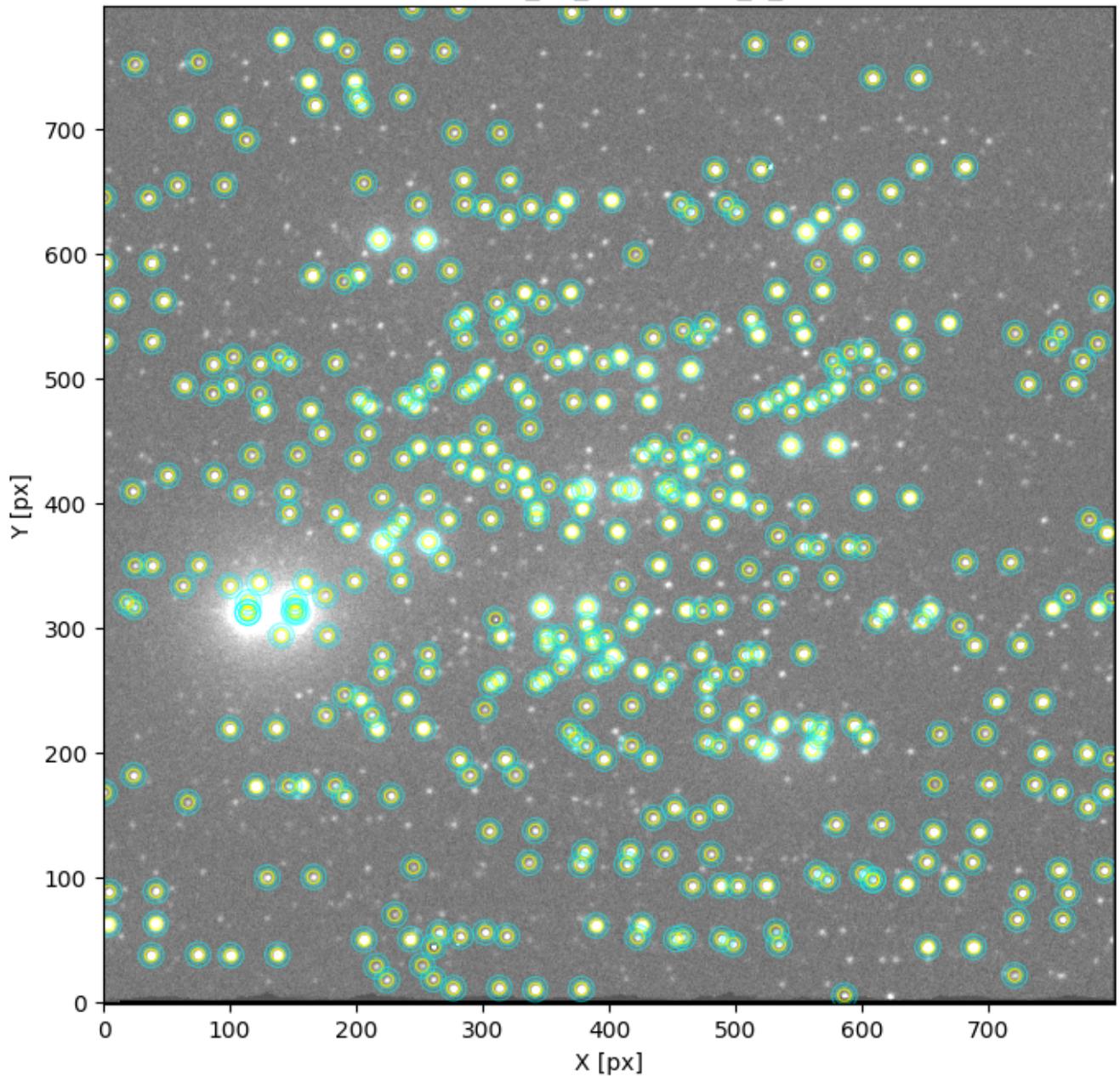
Apertures caf-20230721-00_21_20-sci-blap_b_f-aligned.fits (r=5px)



Apertures caf-20230721-00_22_08-sci-blap_b_f-aligned.fits (r=5px)

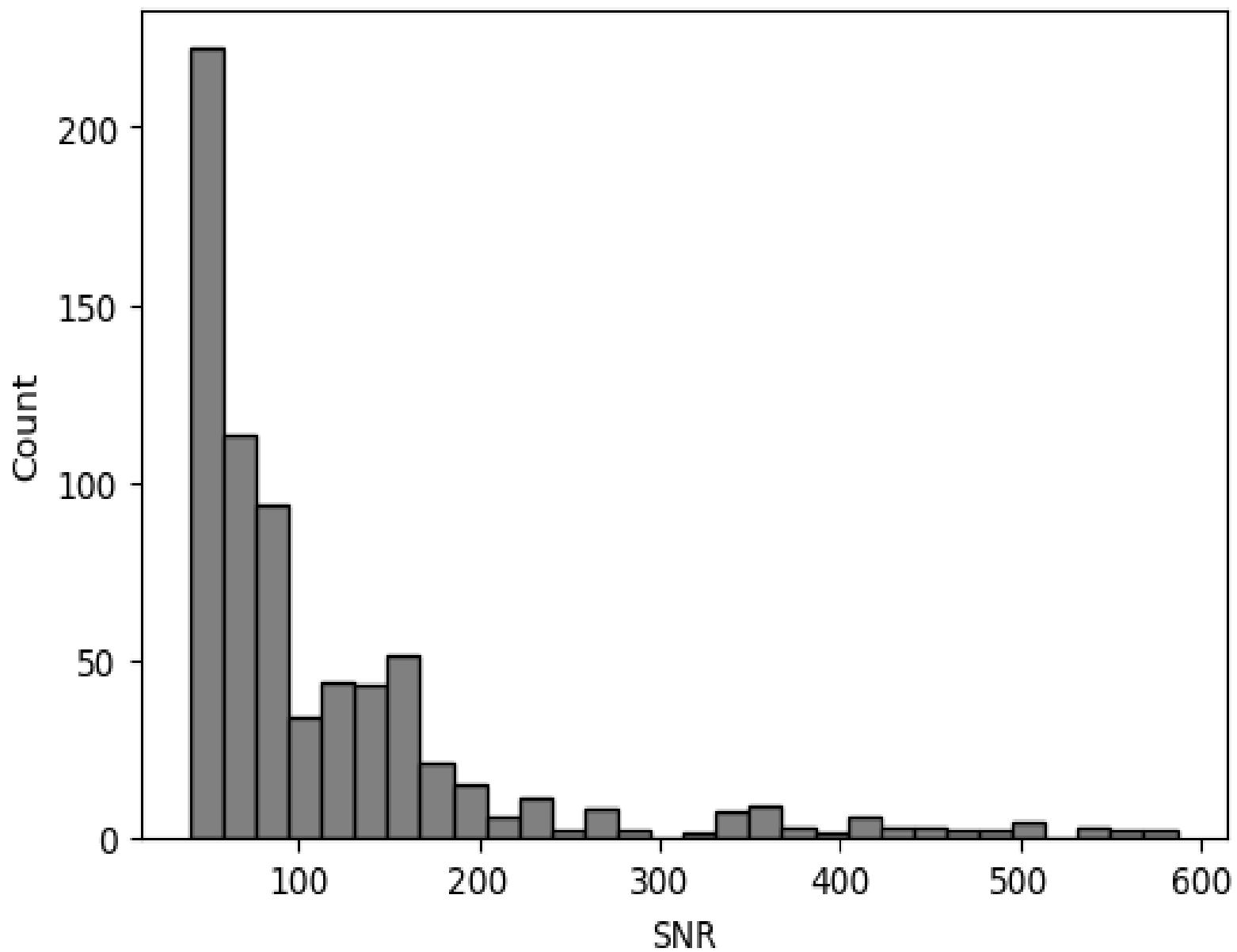


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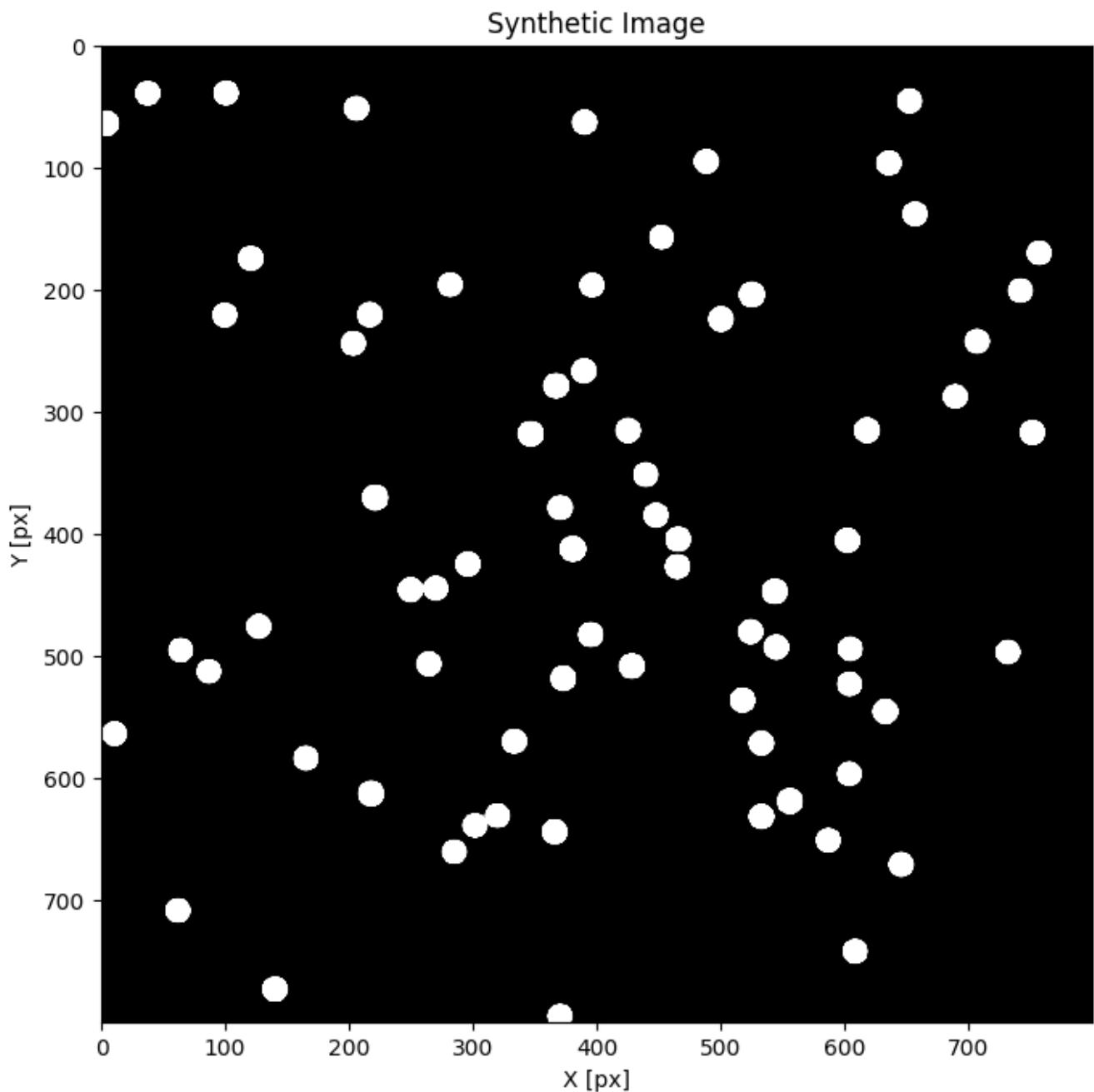


4. Fotometría — Histograma de SNR

Distribution of Photometry SNR



5. Astrometría — Imagen sintética



5. Astrometría — Resultados SIMBAD

Par	RA (°)	DEC (°)	Simbad ID	Object Type
5	278.310634	-10.450442	UCAC4 398-084084	Star
6	278.310923	-10.441253	Gaia DR3 4155017715112890624	Star
7	278.314819	-10.360923	UCAC4 399-080906	Star
9	278.313332	-10.426033	NGC 6649 71	Star
15	278.315983	-10.399303	NGC 6649 74	Star
16	278.314120	-10.455424	UCAC4 398-084084	Star
21	278.321261	-10.385132	NGC 6649 76	Star
22	278.322270	-10.363628	UCAC4 399-080906	Star
31	278.328553	-10.360758	GES J18331889-1021381	Star
35	278.330283	-10.390765	NGC 6649 421	Star
38	278.333860	-10.346272	Gaia DR3 4155024930662368896	Star
40	278.331109	-10.439128	UCAC4 398-084101	Star
45	278.335141	-10.415834	NGC 6649 45	Star
46	278.335800	-10.399149	NGC 6649 46	Star
47	278.338353	-10.348671	Gaia DR3 4155024926353432704	Star
49	278.337629	-10.380372	2MASS J18332105-1022486	RedSG
56	278.337859	-10.442426	Gaia DR3 4155014790227699200	Star
57	278.338416	-10.425419	NGC 6649 44	Star
59	278.340480	-10.384116	NGC 6649 48	Star
64	278.344321	-10.354004	Gaia DR3 4155024926353433856	Star
65	278.341838	-10.427490	NGC 6649 43	Star
73	278.346190	-10.400492	NGC 6649 24	Star
75	278.347860	-10.403824	NGC 6649 23	Star
80	278.350937	-10.356818	GES J18332426-1021239	Star
90	278.353613	-10.395555	NGC 6649 17	Star
91	278.354659	-10.367388	2MASS J18332515-1022018	Star
92	278.355666	-10.347879	UCAC2 28238305	Be*
93	278.353591	-10.407030	NGC 6649 19	Star
104	278.359045	-10.393658	NGC 6649 16	Be*
110	278.360664	-10.425610	2MASS J18332658-1025317	RedSG
112	278.362680	-10.403877	NGC 6649 8	Star
114	278.364047	-10.392631	NGC 6649 15	Star

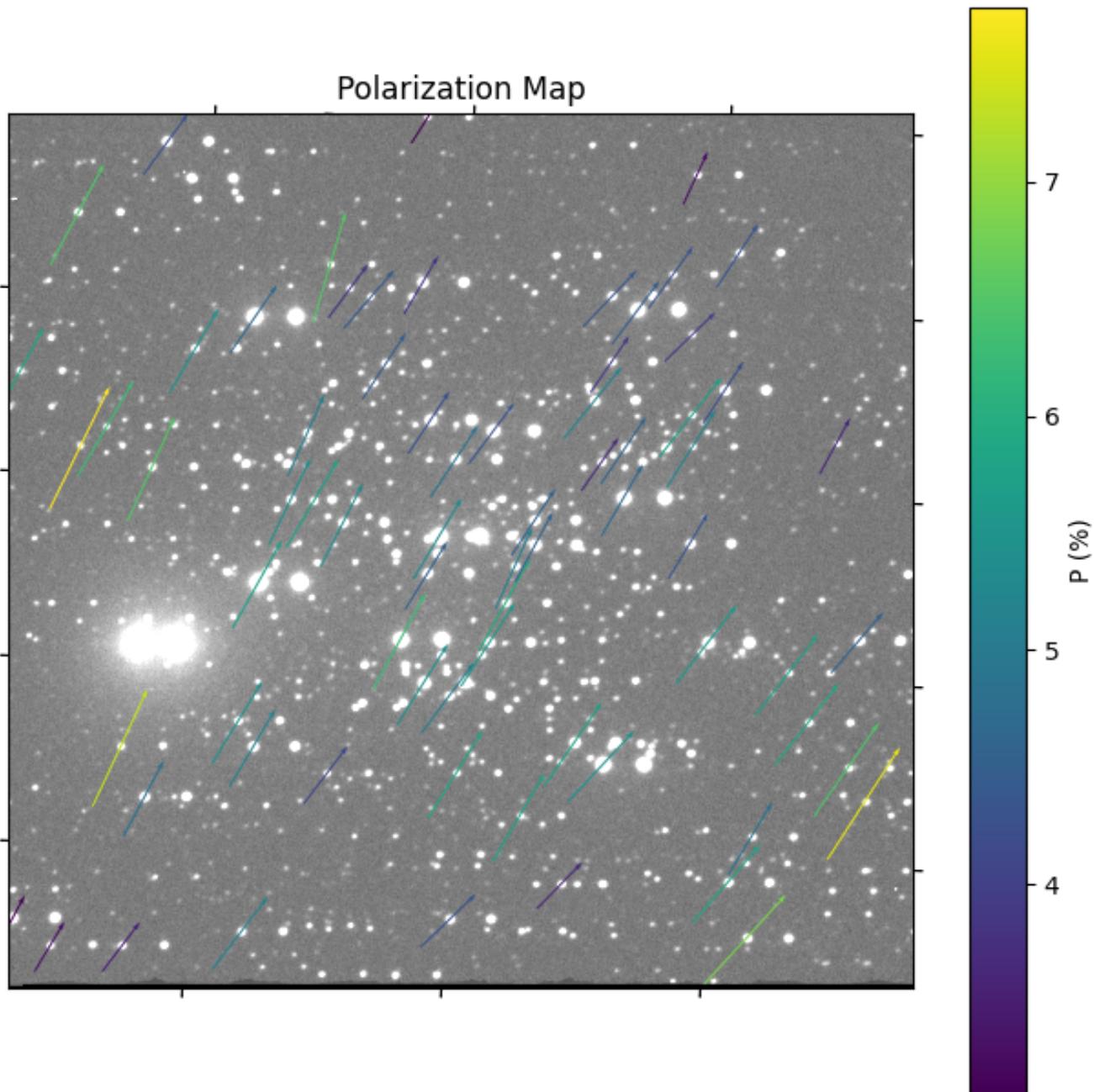
122	278.367047	-10.390125	NGC 6649 14	Star
123	278.367979	-10.370187	UCAC4 399-080995	Star
128	278.367753	-10.402585	NGC 6649 9	Be*
132	278.369142	-10.414991	NGC 6649 5	Star
133	278.370378	-10.390338	NGC 6649 13	Star
139	278.371955	-10.418873	NGC 6649 4	Star
140	278.372019	-10.421846	NGC 6649 3	Star
142	278.373846	-10.378958	NGC 6649 28	Star
147	278.375812	-10.439842	NGC 6649 41	Star
149	278.378635	-10.381988	NGC 6649 29	Star
151	278.378272	-10.400843	NGC 6649 34	Star
156	278.380641	-10.379019	NGC 6649 30	Star
157	278.381173	-10.370291	Gaia DR3 4155024277822929024	Star
159	278.378351	-10.449127	Gaia DR3 4155020429520782080	Star
161	278.382305	-10.351680	GES J18333179-1021056	Star
166	278.381113	-10.420043	NGC 6649 37	Star
168	278.382291	-10.396146	NGC 6649 33	Star
169	278.381066	-10.445902	NGC 6649 509	Star
174	278.383469	-10.404276	NGC 6649 35	Star
177	278.385458	-10.370544	Gaia DR3 4155024277822923904	Star
183	278.386936	-10.383226	NGC 6649 31	Star
189	278.388969	-10.366419	GES J18333339-1021584	Star
195	278.388220	-10.457270	Gaia DR3 4155020360812652032	Star
196	278.390909	-10.410312	NGC 6649 40	Star
197	278.392261	-10.381196	NGC 6649 57	Star
199	278.392047	-10.434896	NGC 6649 65	Be*
203	278.396409	-10.370943	Gaia DR3 4155024243463171328	EclBin
208	278.396634	-10.427393	V* V367 Sct	ClassicalCep
209	278.399447	-10.378080	NGC 6649 58	Star
210	278.399884	-10.412614	NGC 6649 62	Star
211	278.401194	-10.381503	NGC 6649 59	Be*
213	278.400953	-10.415293	NGC 6649 63	Star
217	278.402107	-10.405936	NGC 6649 61	Star
221	278.404397	-10.373700	GES J18333709-1022247	Star
224	278.404083	-10.417857	ZTF J183337.02-102503.7	LongPeriodV*

226	278.407688	-10.365192	GES J18333788-1021542	Star
231	278.409998	-10.450589	GES J18333842-1027012	Star
236	278.418050	-10.370987	GES J18334036-1022151	Star
242	278.419999	-10.439529	GES J18333957-1026273	Star
243	278.424573	-10.406086	Gaia DR3 4155020979287963904	Star

6. Polarimetría — Estimación Interestelar (ISM)

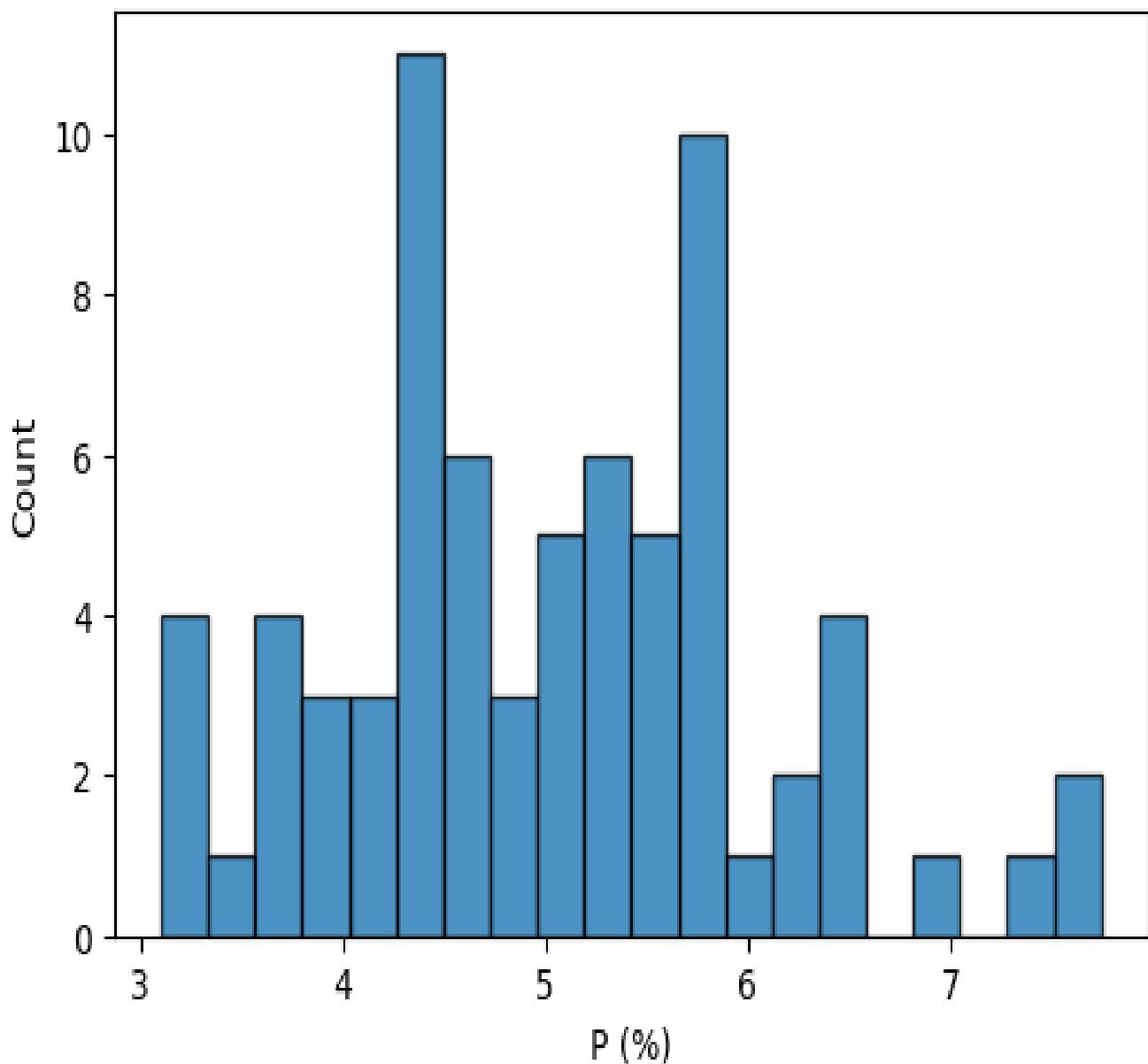
Comp.	Q mean	Q σ	Q weight	U mean	U σ	U weight	Dominante Q	Dominante U
0	-1.676	0.644	0.69	4.112	0.527	0.76	✓	✓
1	-2.693	0.568	0.31	5.227	0.816	0.24		

6. Polarimetría — Mapa de polarización



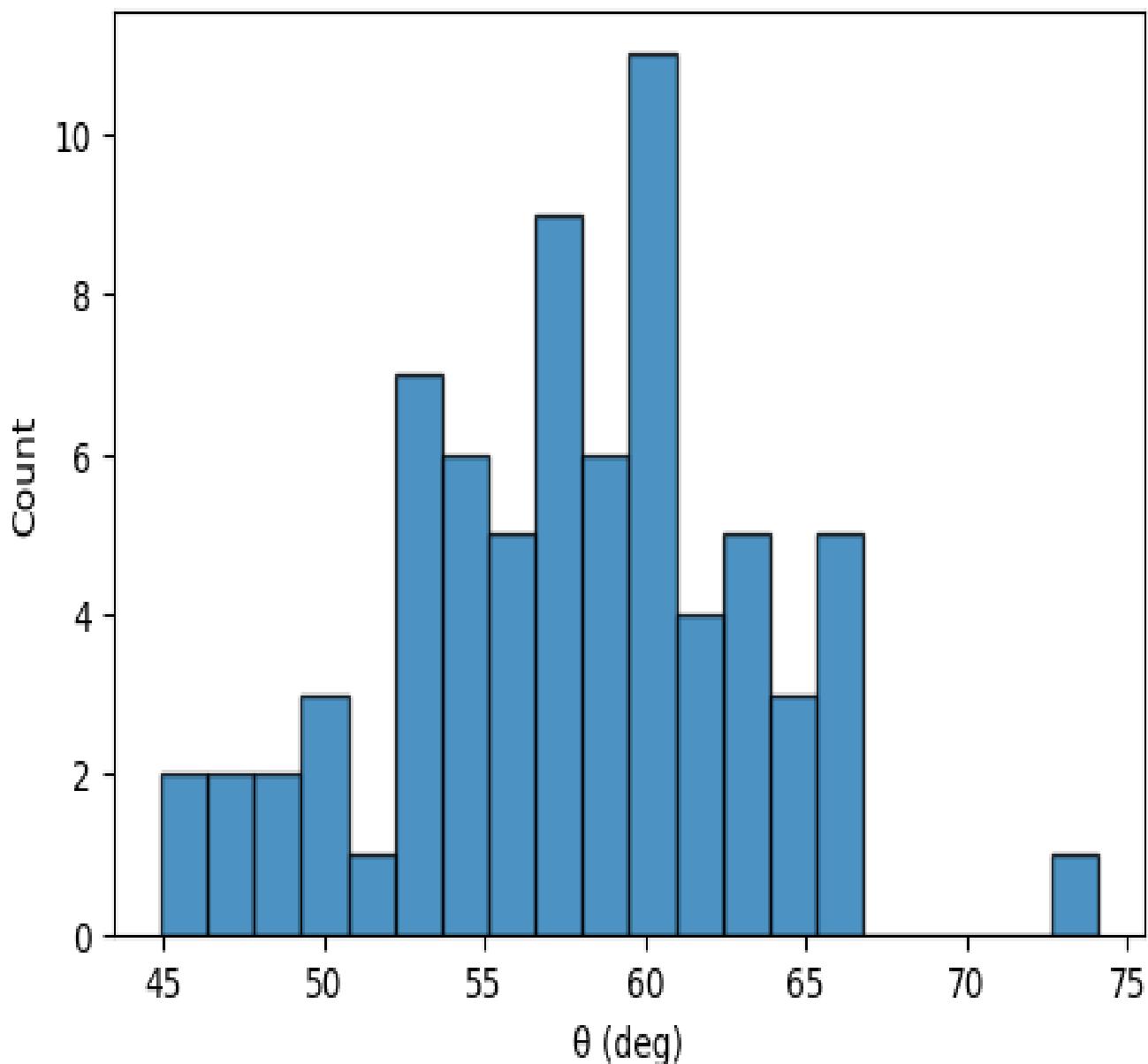
6. Polarimetría — Histograma de P

Histogram of Polarization Degree

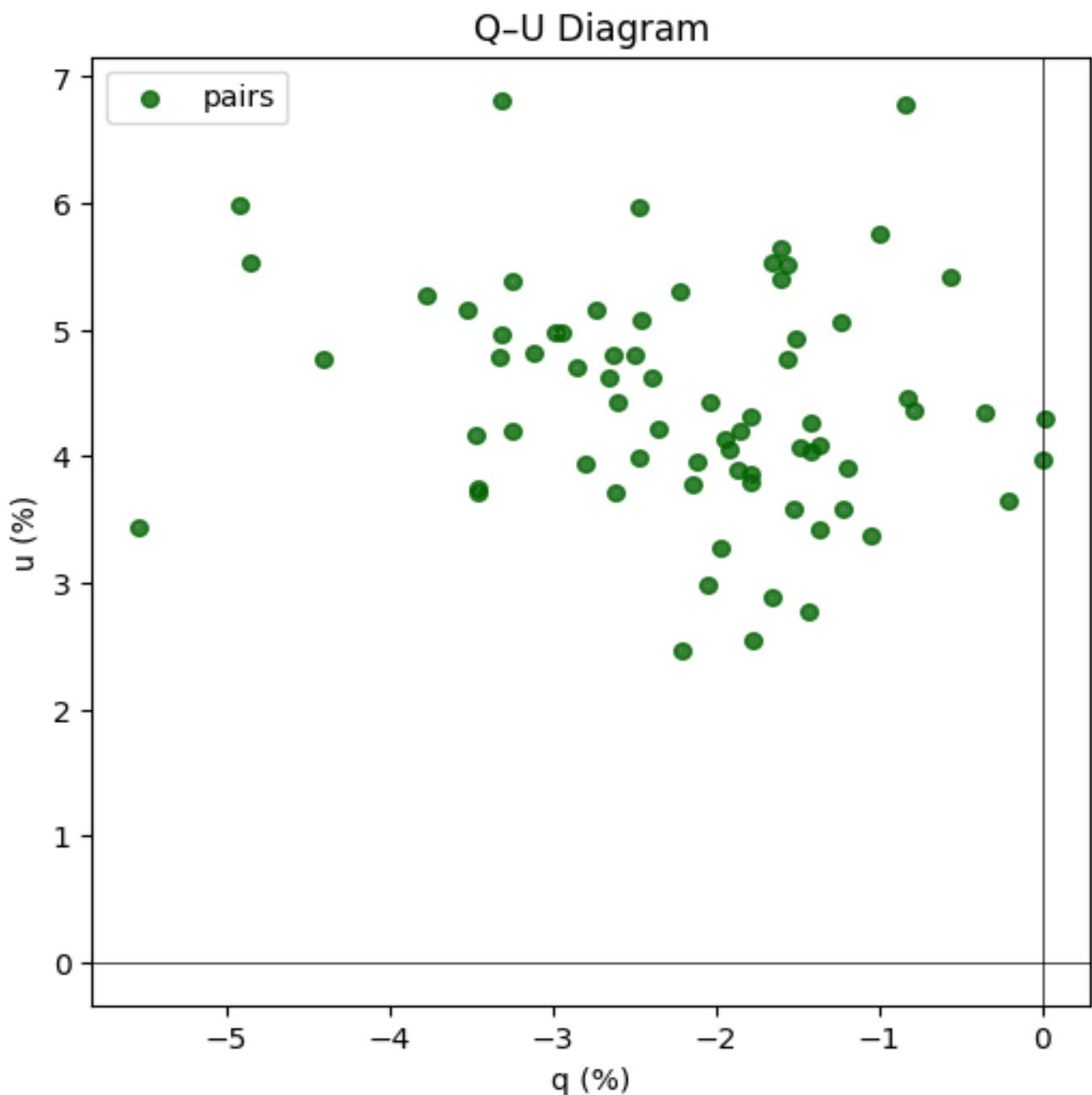


6. Polarimetría — Histograma de θ

Histogram of Polarization Angle



6. Polarimetría — Diagrama Q–U



6. Polarimetría — Estimación Interestelar (ISM)

Comp.	Q mean	Q σ	Q weight	U mean	U σ	U weight	Dom Q	Dom U
1	-2.693	0.568	0.31	5.227	0.816	0.24		

Explicación de columnas:

Q Means: medias de la componente q estimada para la polarización interestelar.

Q sigmas: desviaciones estándar (σ) de los componentes gaussianos ajustados a q.

Q weights: pesos relativos de cada componente gaussiano en la mezcla de q.

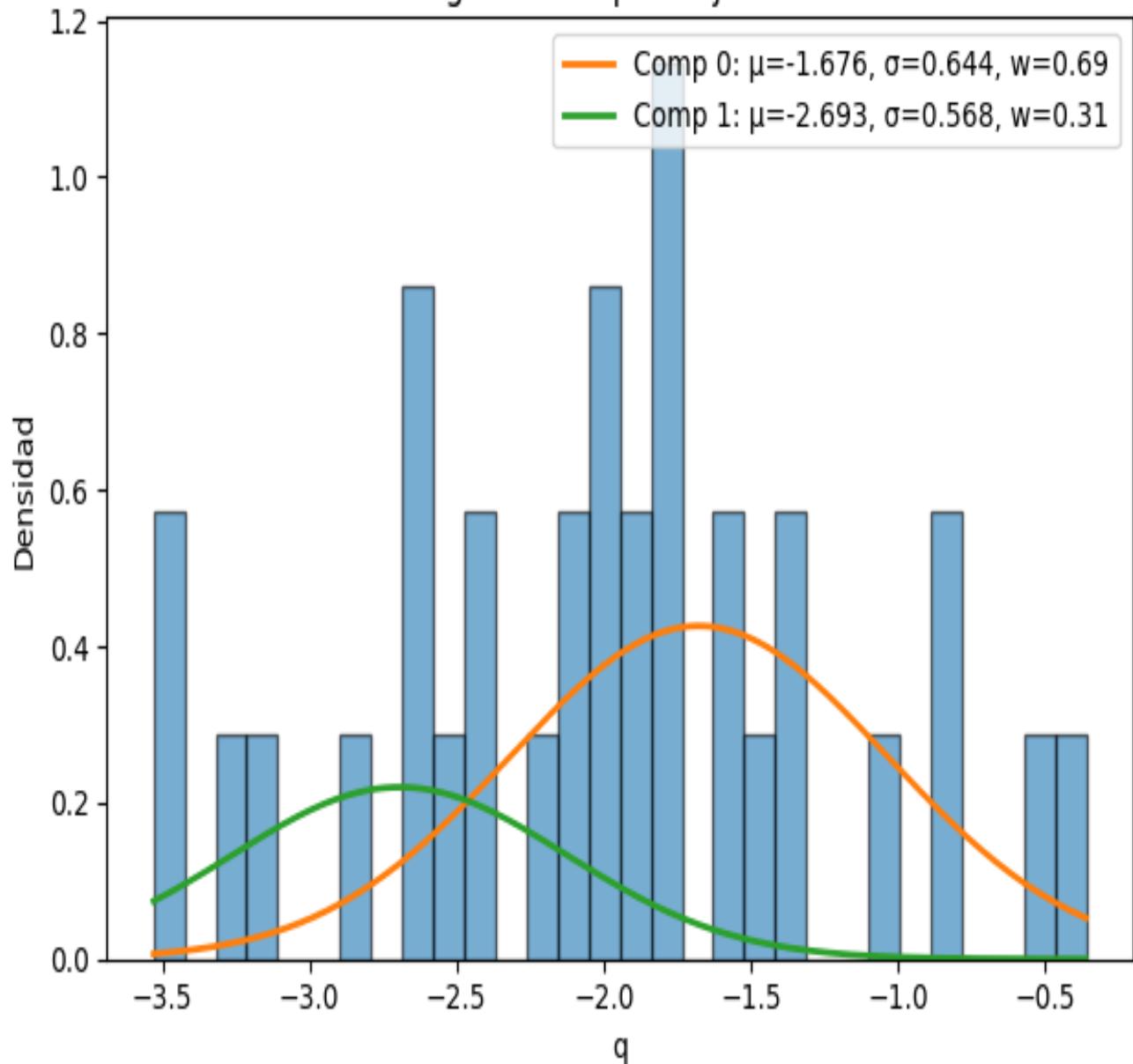
U Means: medias de la componente u estimada para la polarización interestelar.

U sigmas: desviaciones estándar (σ) de los componentes gaussianos ajustados a u.

U weights: pesos relativos de cada componente gaussiano en la mezcla de u.

6. Polarimetría — Histograma de ISM con ajuste GMM Q

Histograma de q con ajuste GMM



6. Polarimetría — Histograma de ISM con ajuste GMM U

