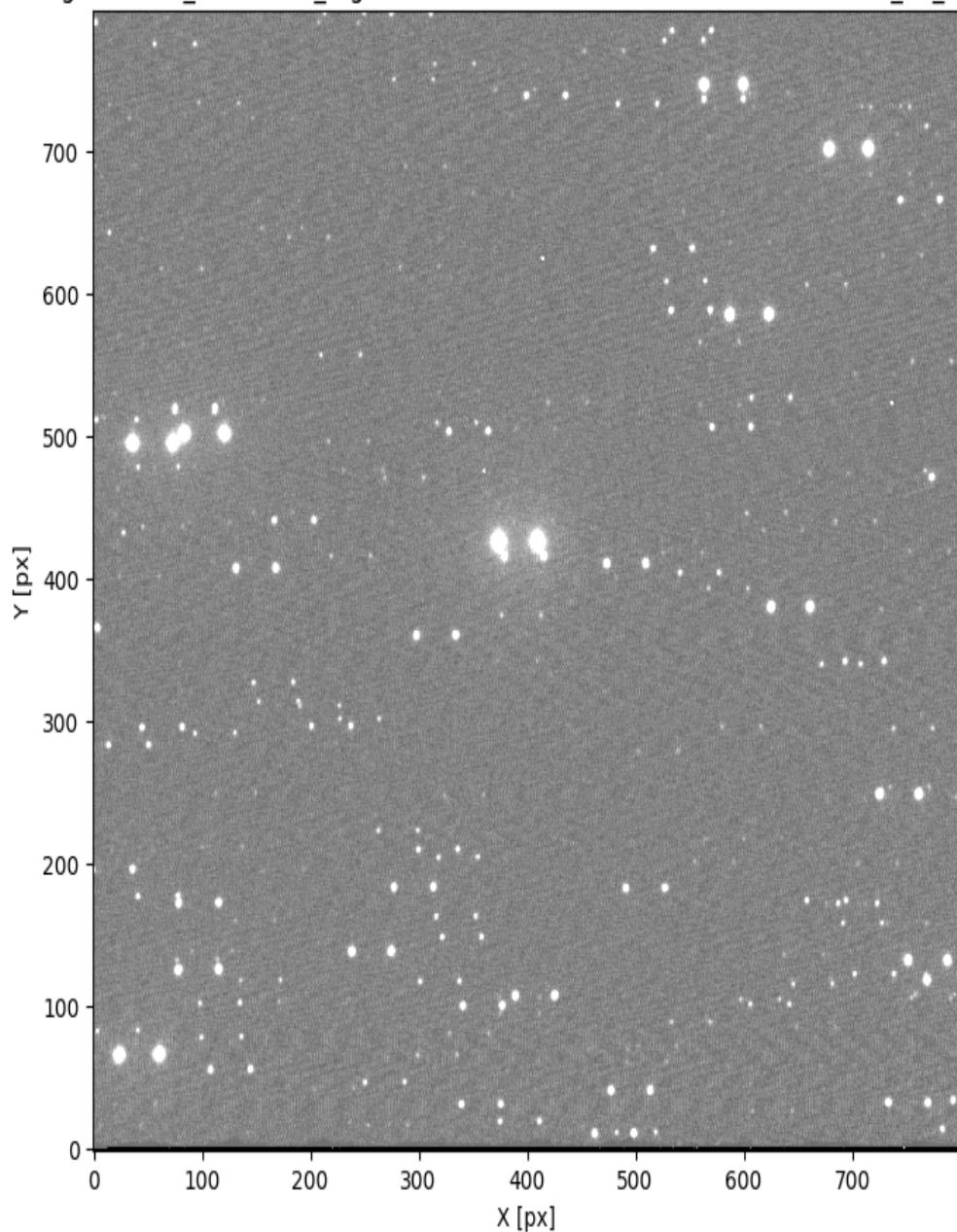
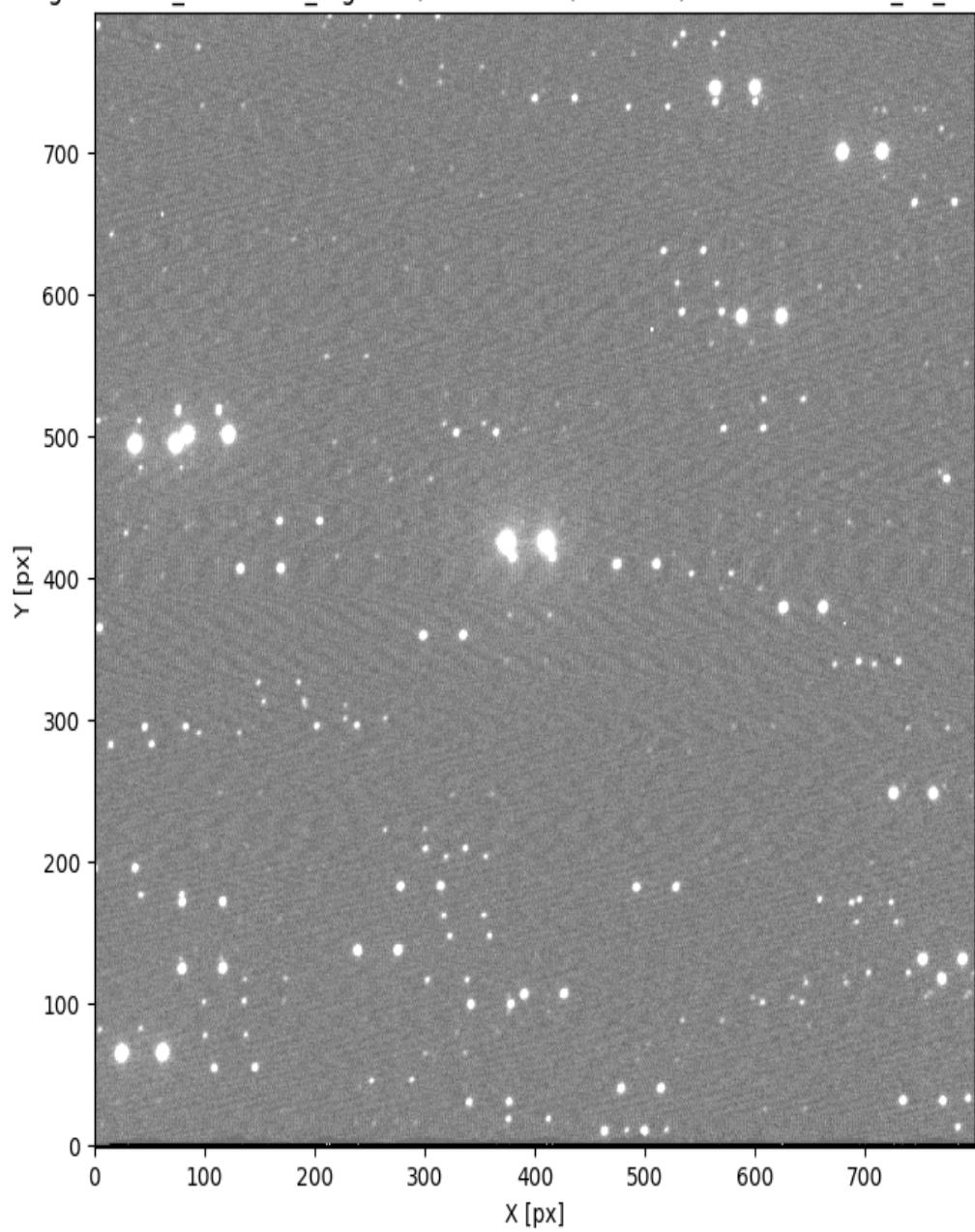


# 1. Imágenes originales

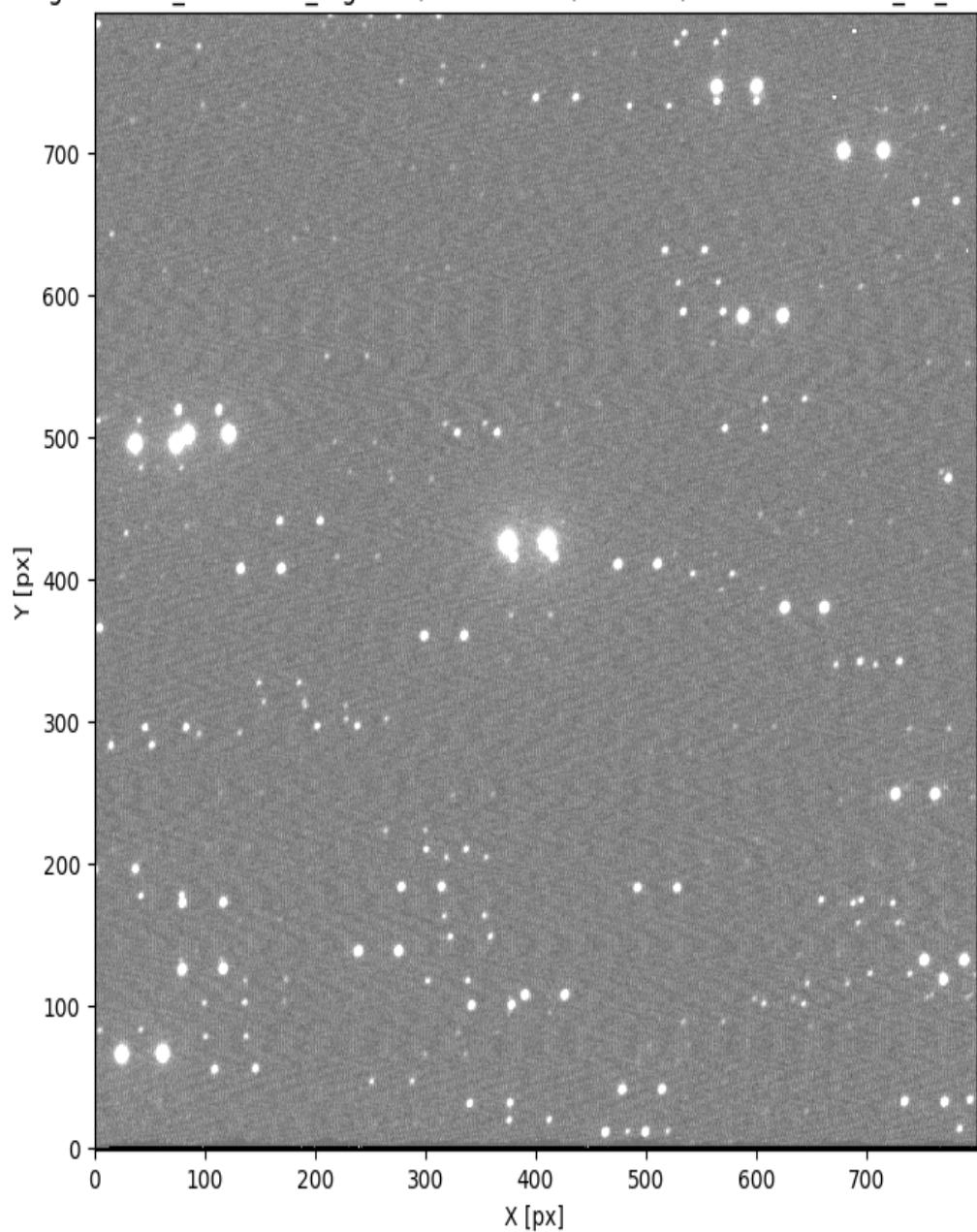
Reference Image noche1\_20230720\_organize/BD+384058/BesselR/caf-20230720-21\_43\_15-sci-blap\_b\_f.fits



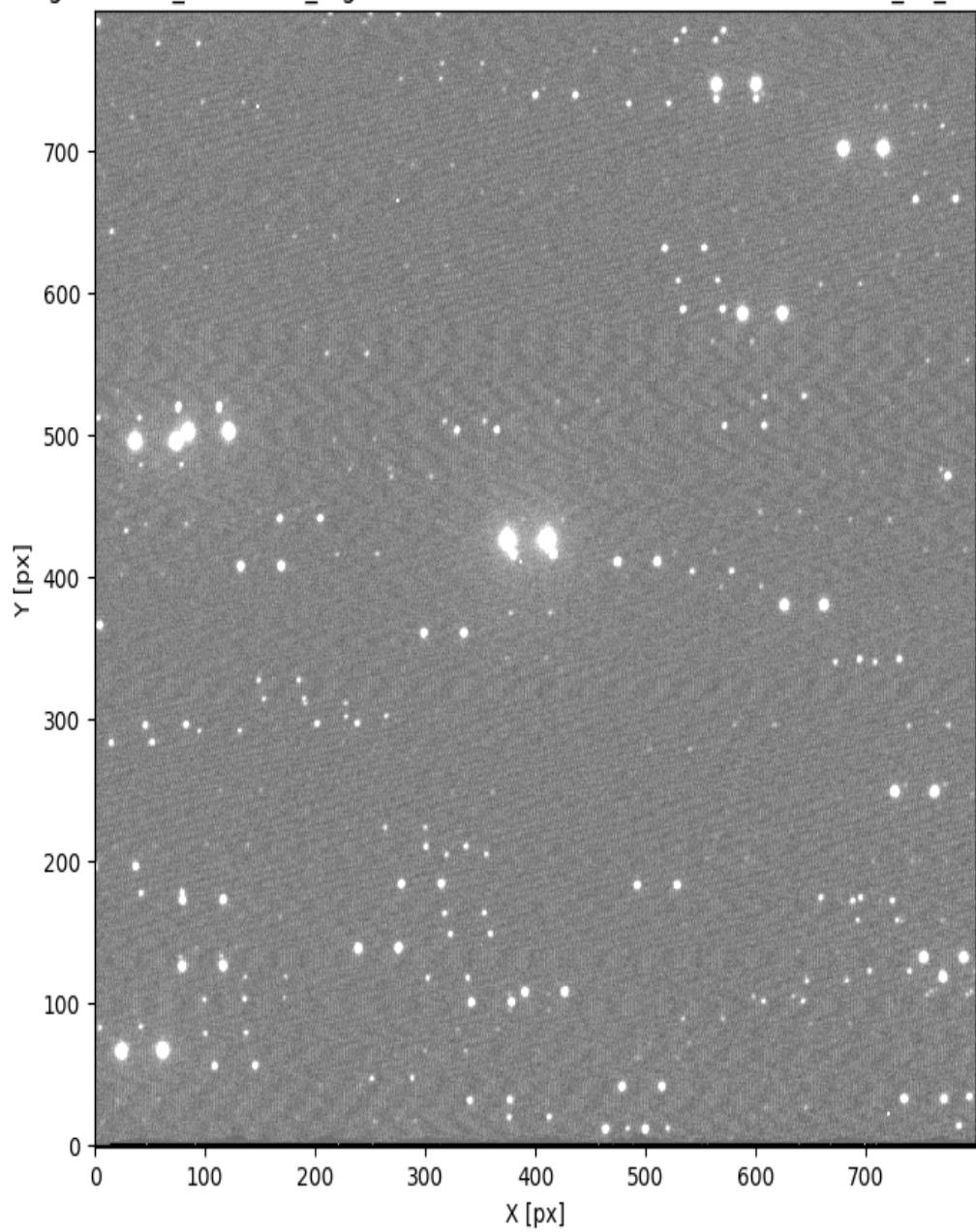
Original Image noche1\_20230720\_organize/BD+384058/BesselR/caf-20230720-21\_44\_01-sci-blap\_b\_f.fits



Original Image noche1\_20230720\_organize/BD+384058/BesselR/caf-20230720-21\_44\_47-sci-blap\_b\_f.fits

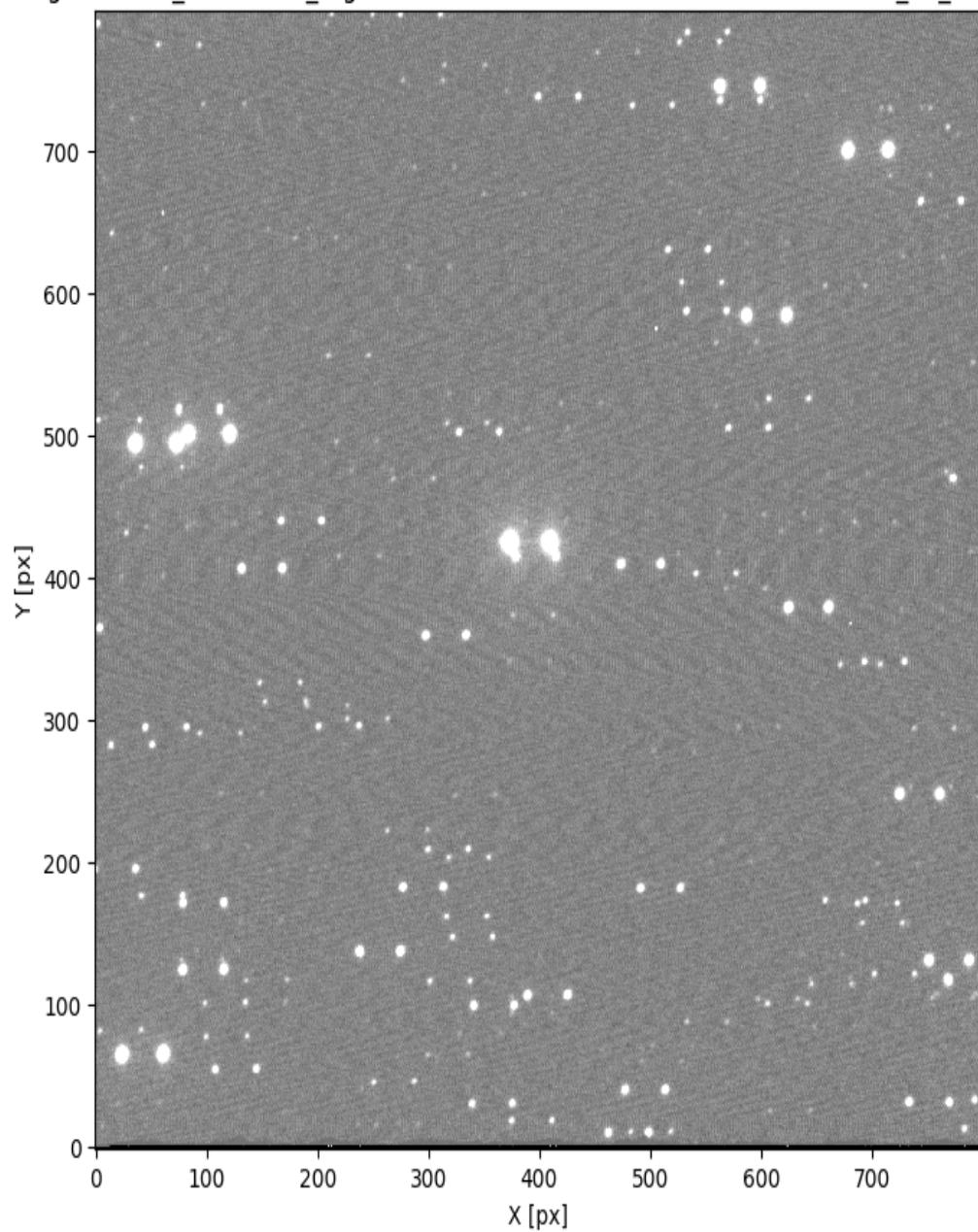


Original Image noche1\_20230720\_organize/BD+384058/BesselR/caf-20230720-21\_45\_33-sci-blap\_b\_f.fits

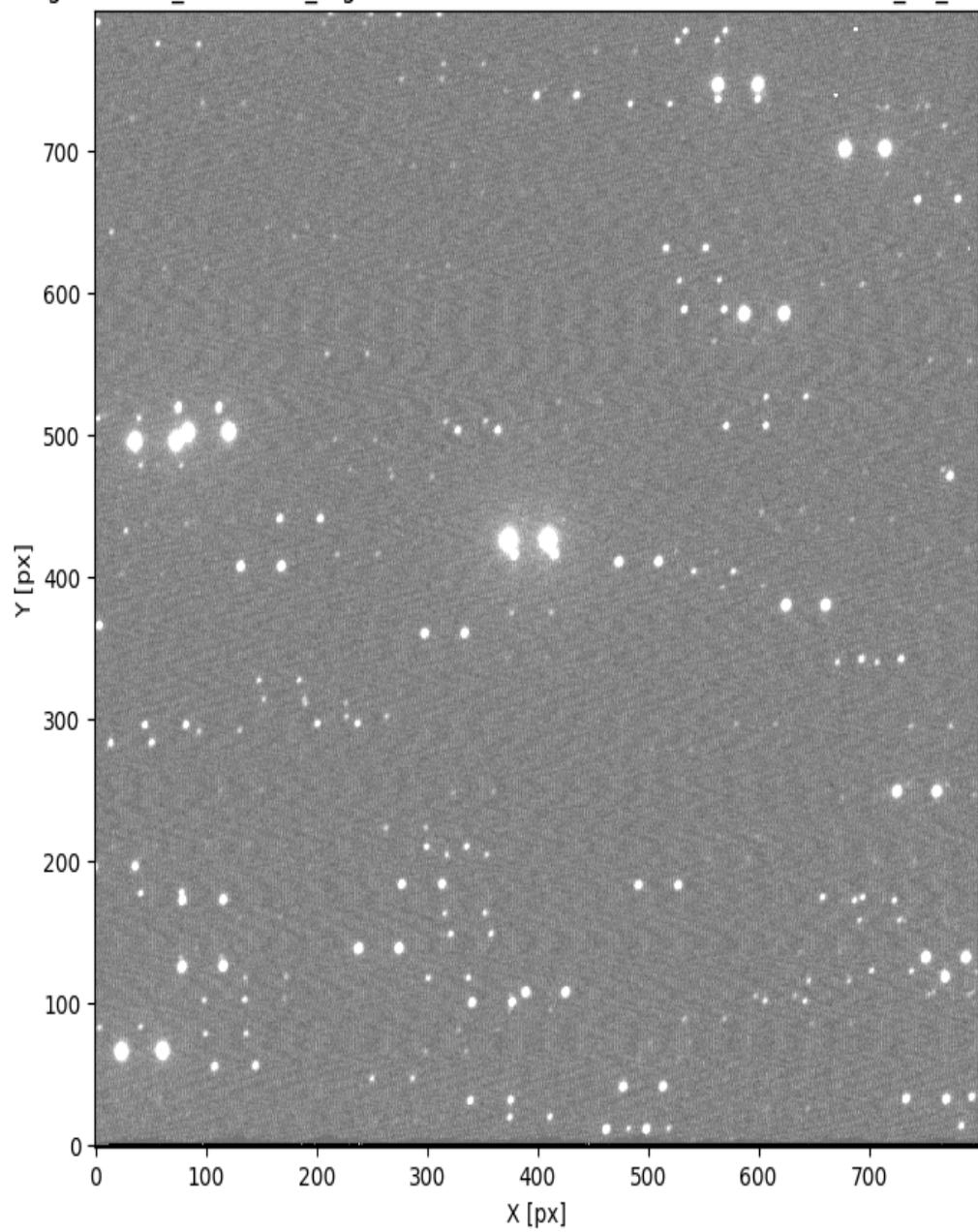


## 2. Imágenes alineadas

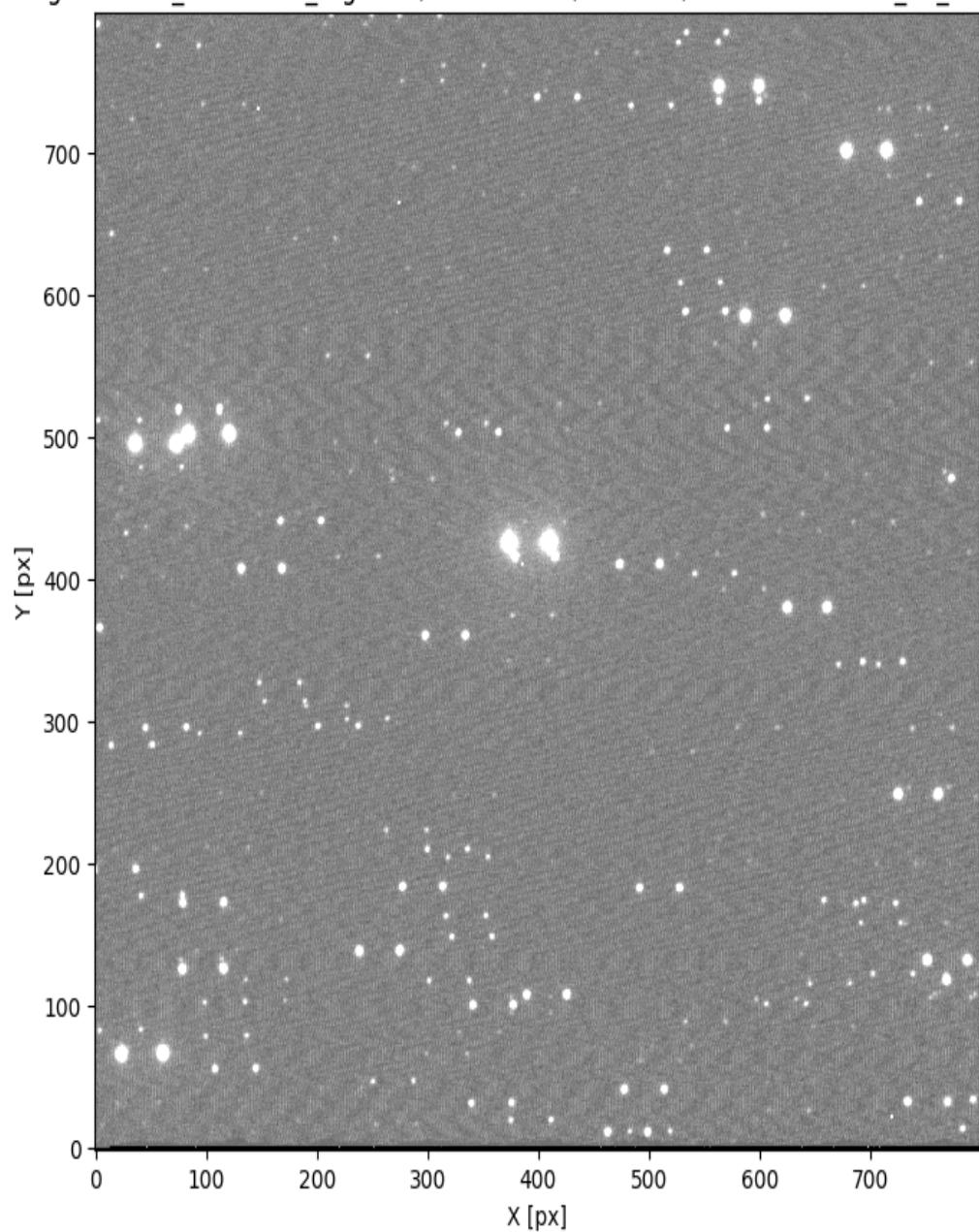
Aligned Image noche1\_20230720\_organize/BD+384058/BesselR/caf-20230720-21\_44\_01-sci-blap\_b\_f.fits



Aligned Image noche1\_20230720\_organize/BD+384058/BesselR/caf-20230720-21\_44\_47-sci-blap\_b\_f.fits

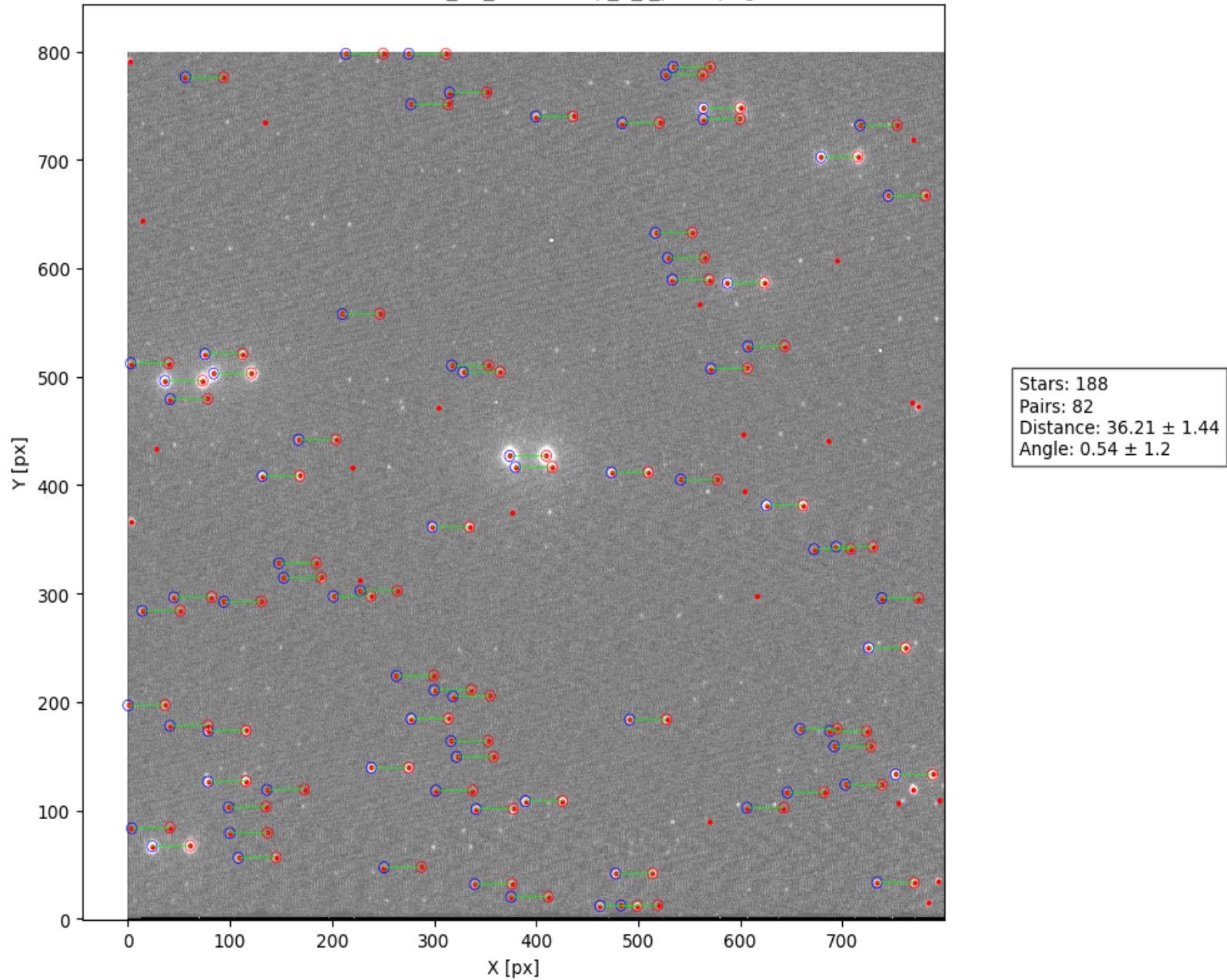


Aligned Image noche1\_20230720\_organize/BD+384058/BesselR/caf-20230720-21\_45\_33-sci-blap\_b\_f.fits

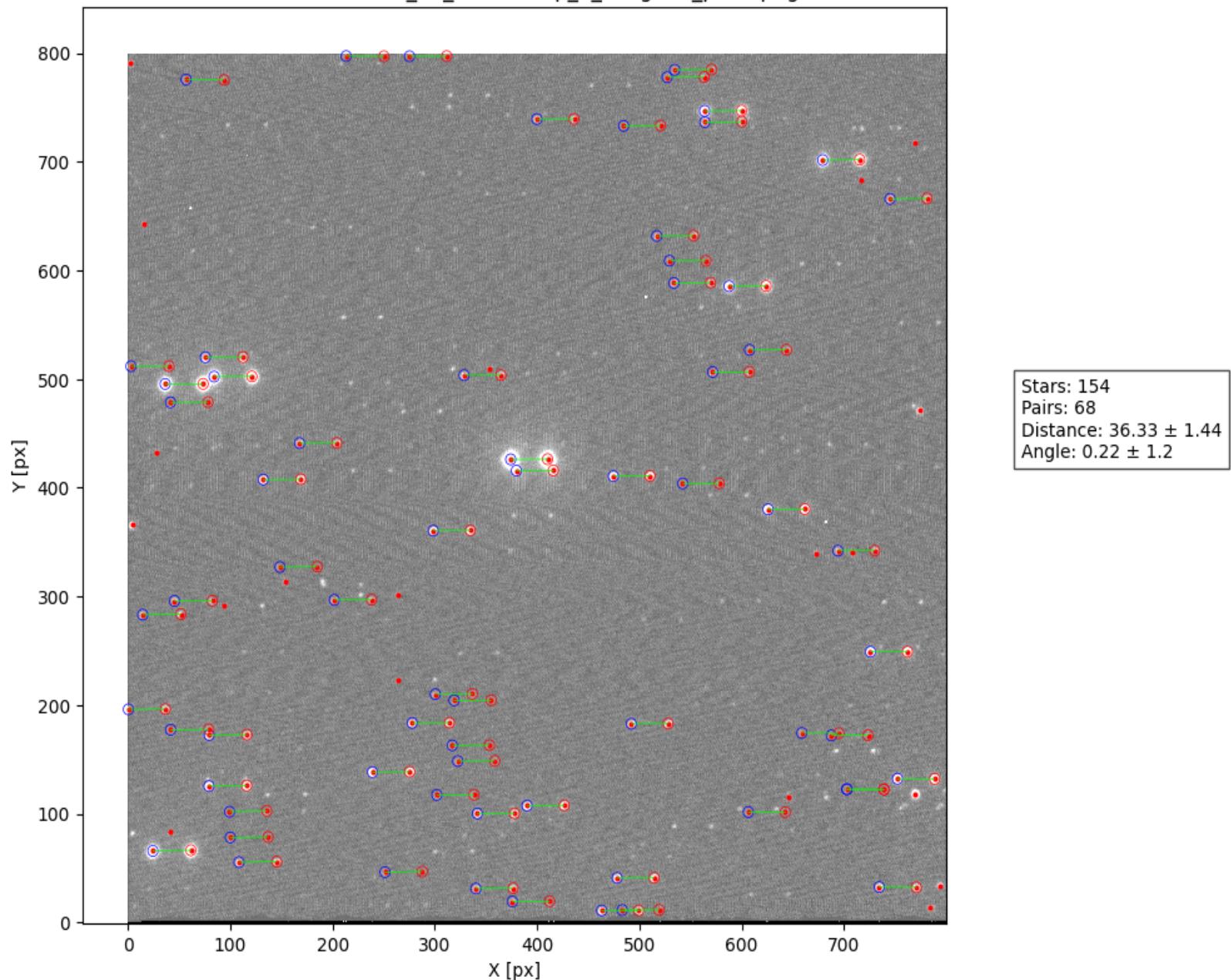


### 3. Imágenes con pares identificados

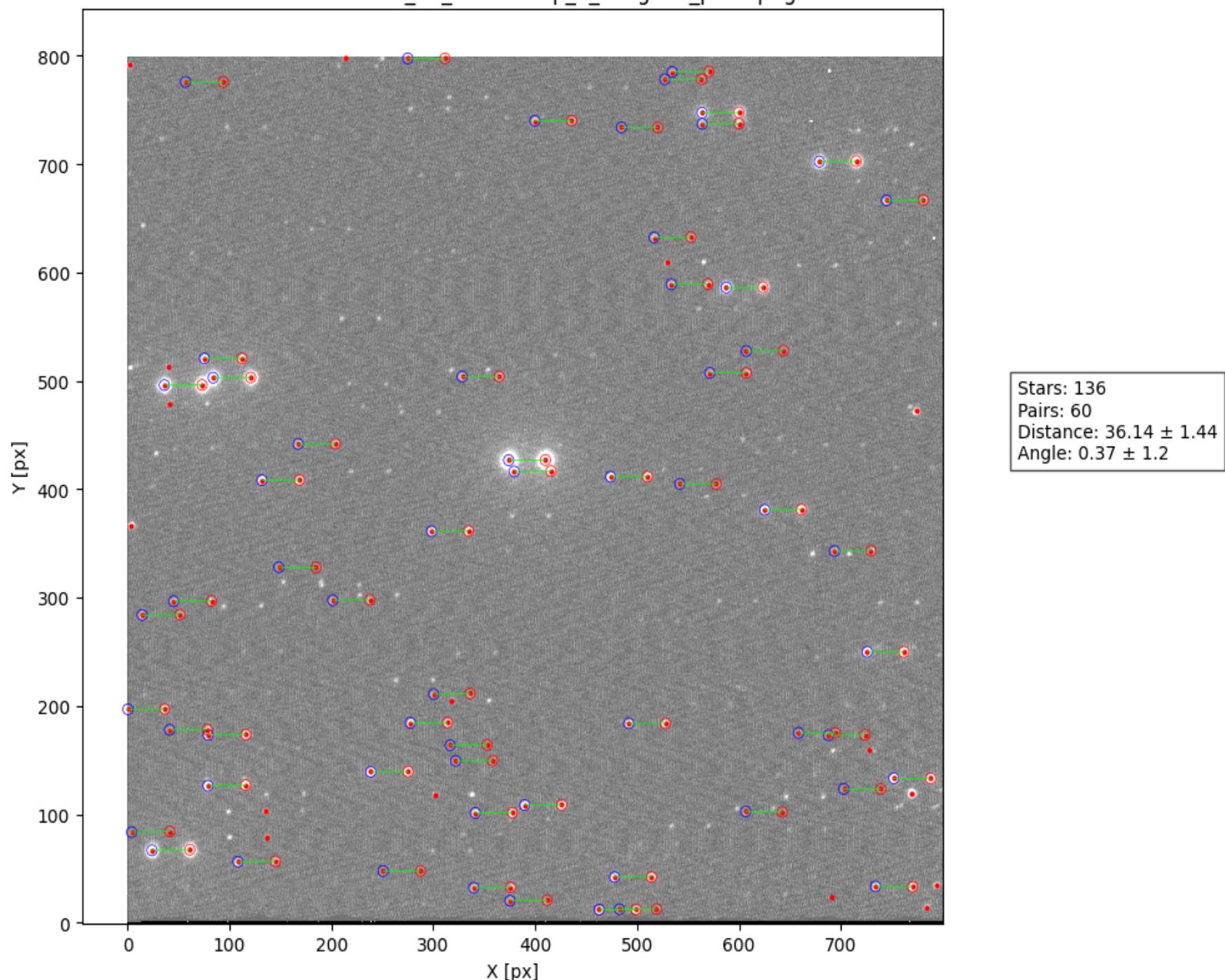
caf-20230720-21\_43\_15-sci-blap\_b\_f\_pairs.png



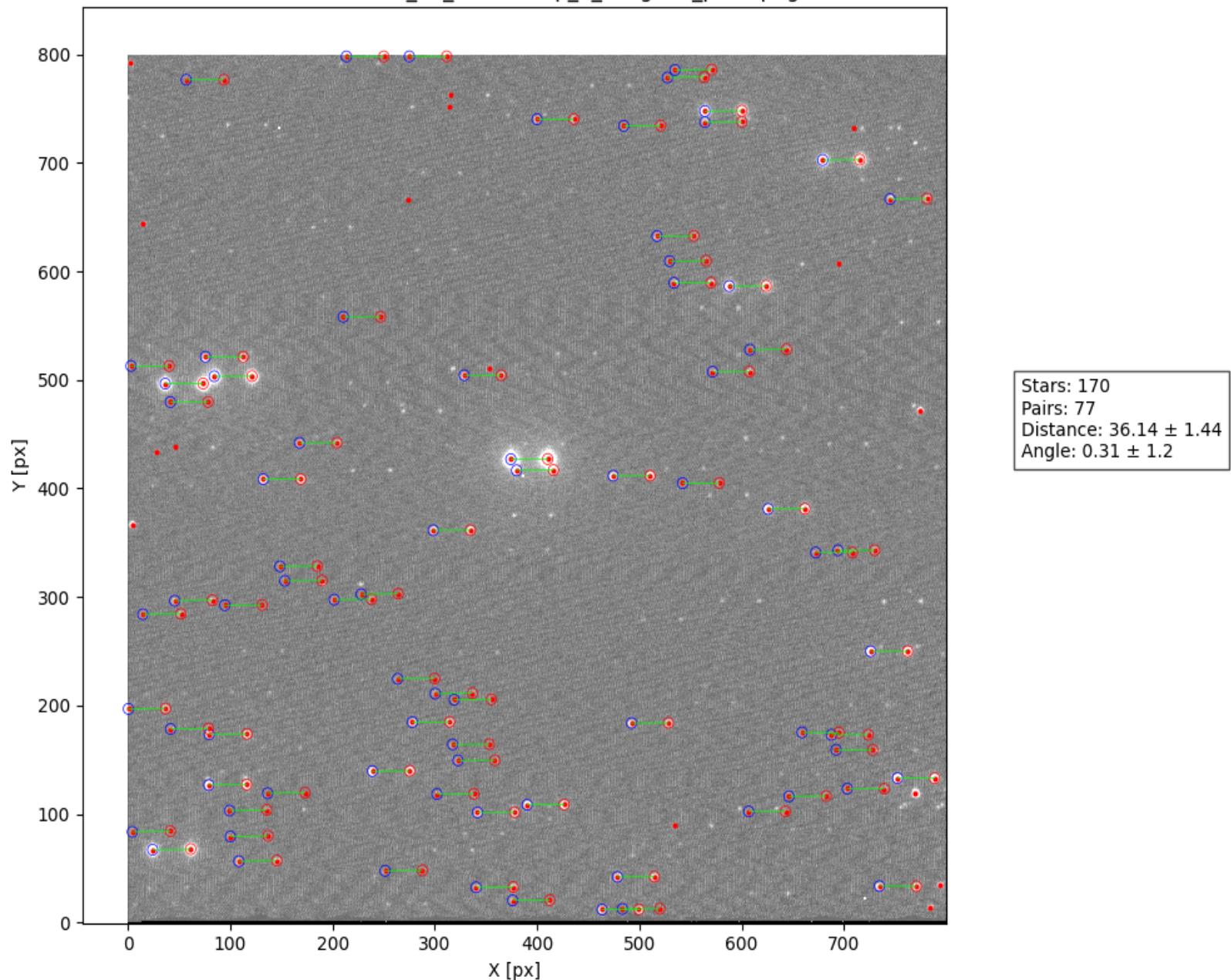
caf-20230720-21\_44\_01-sci-blap\_b\_f-aligned\_pairs.png



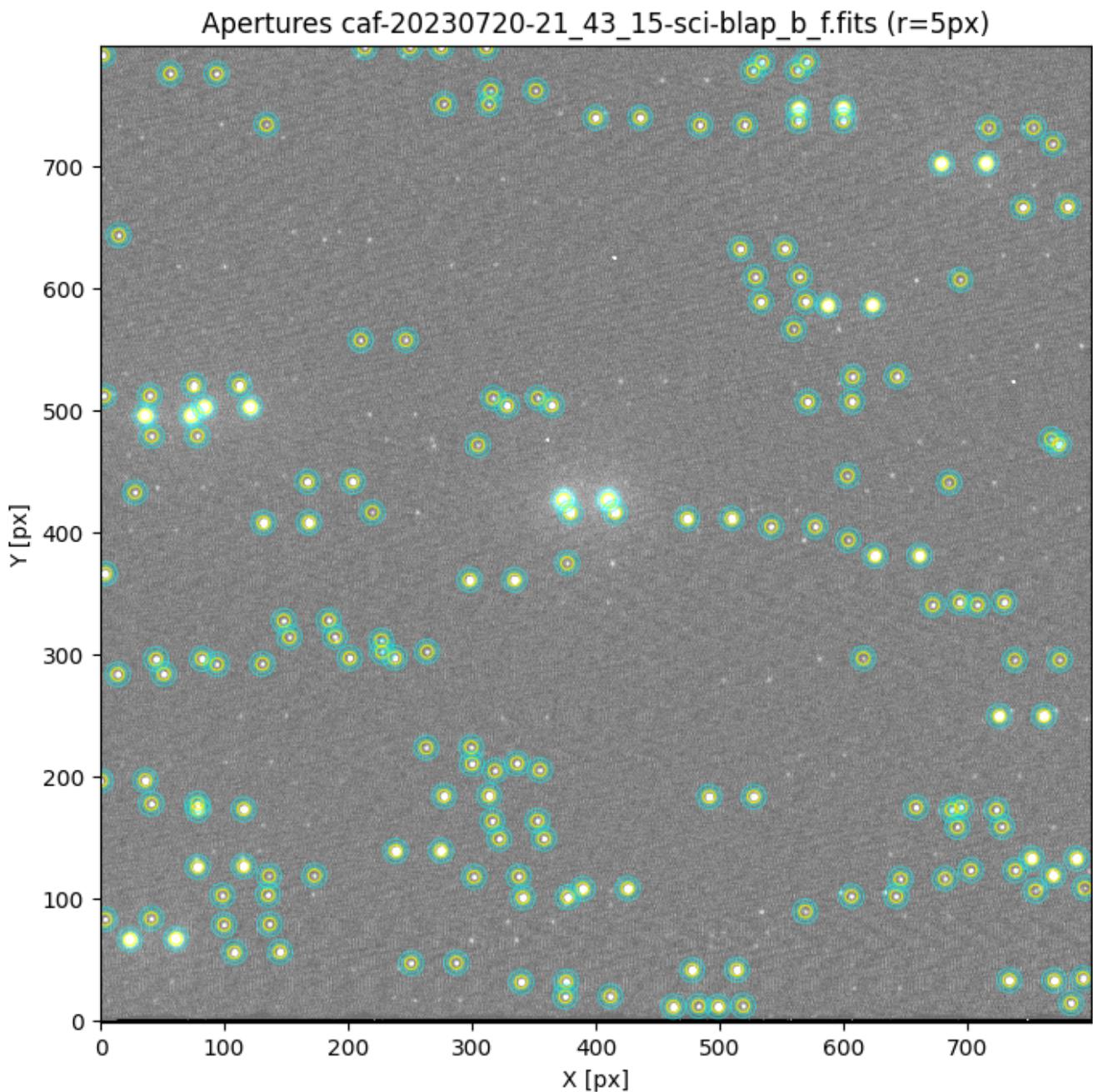
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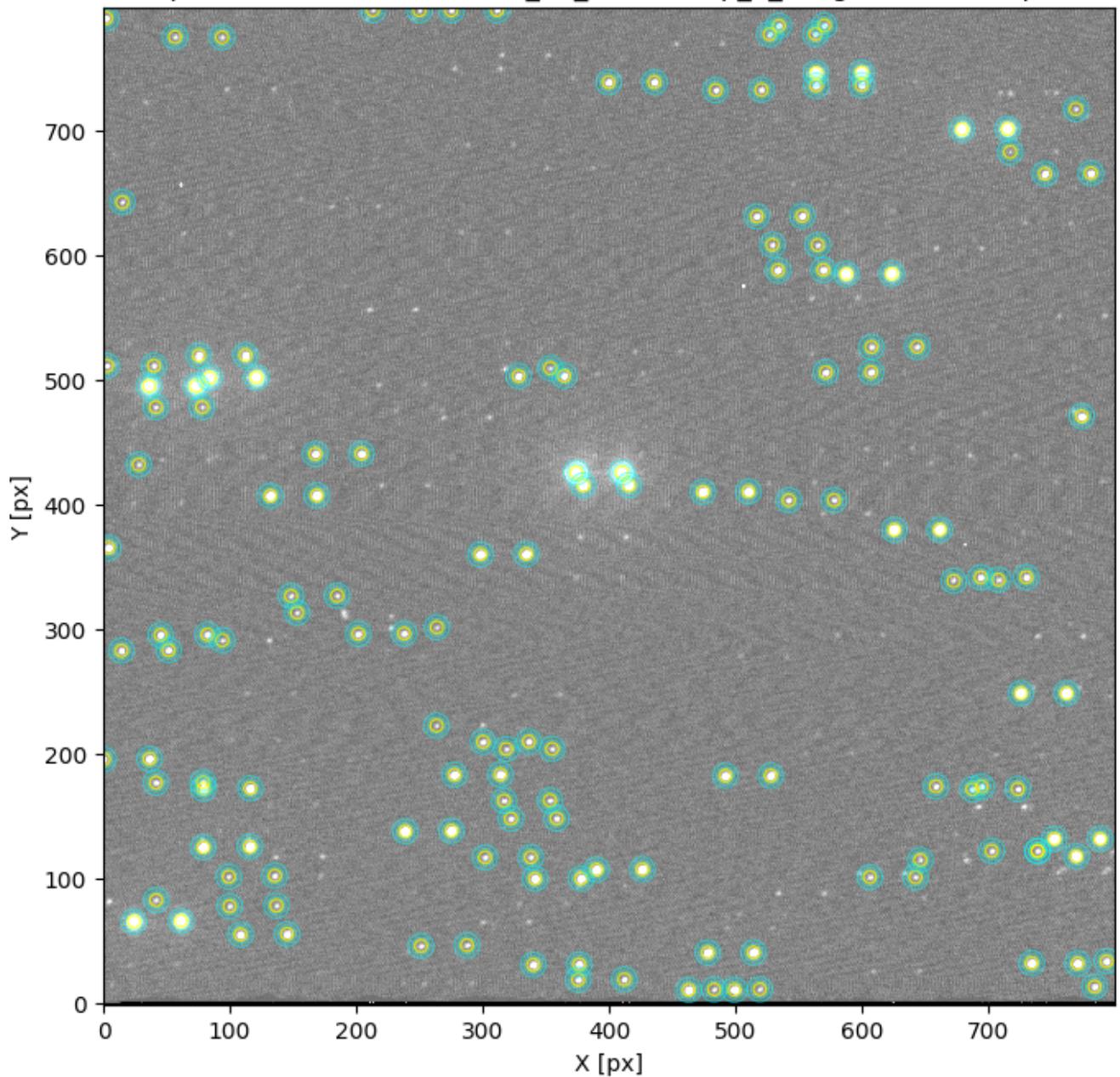
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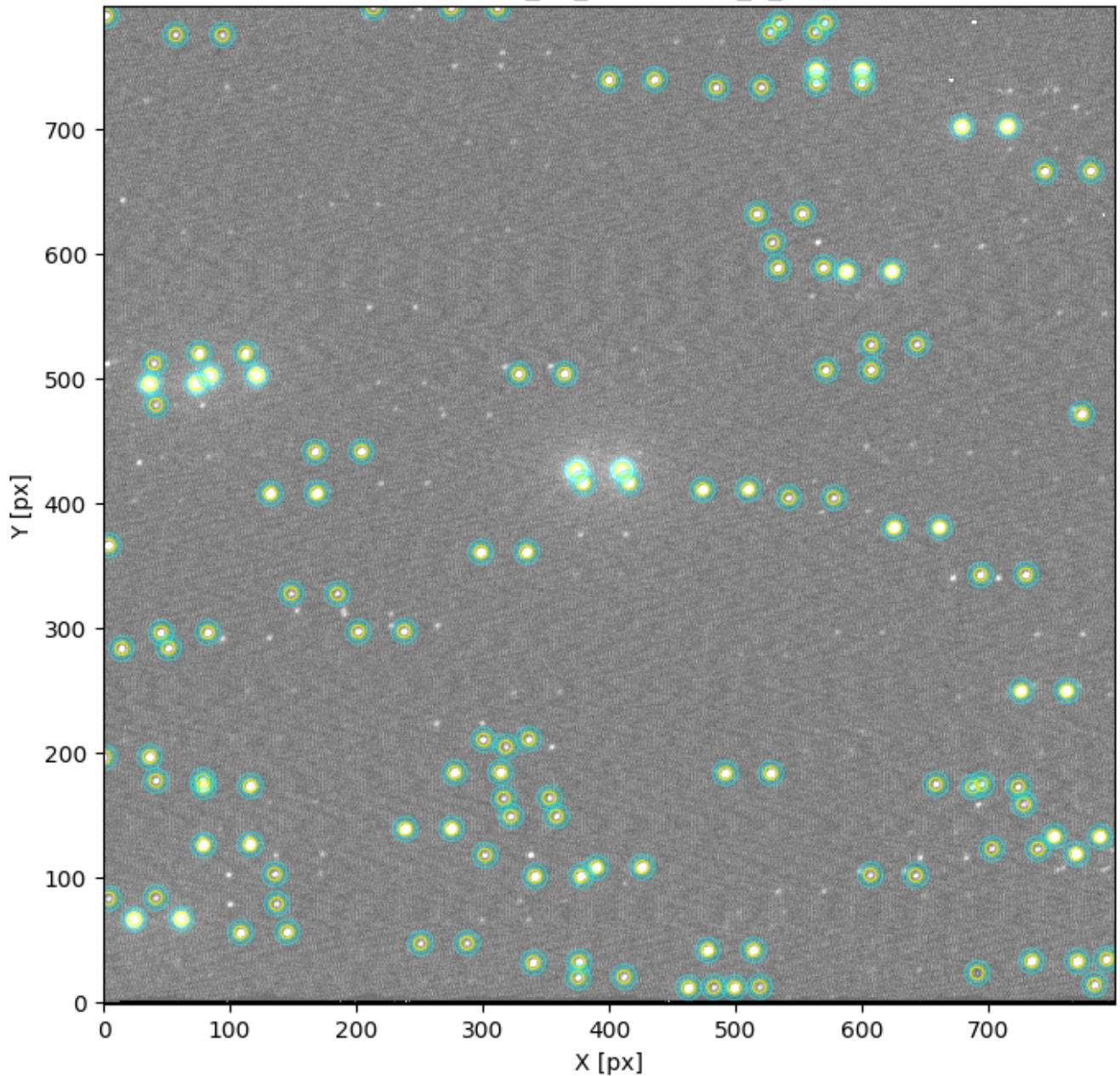
## 4. Fotometría — Aperturas



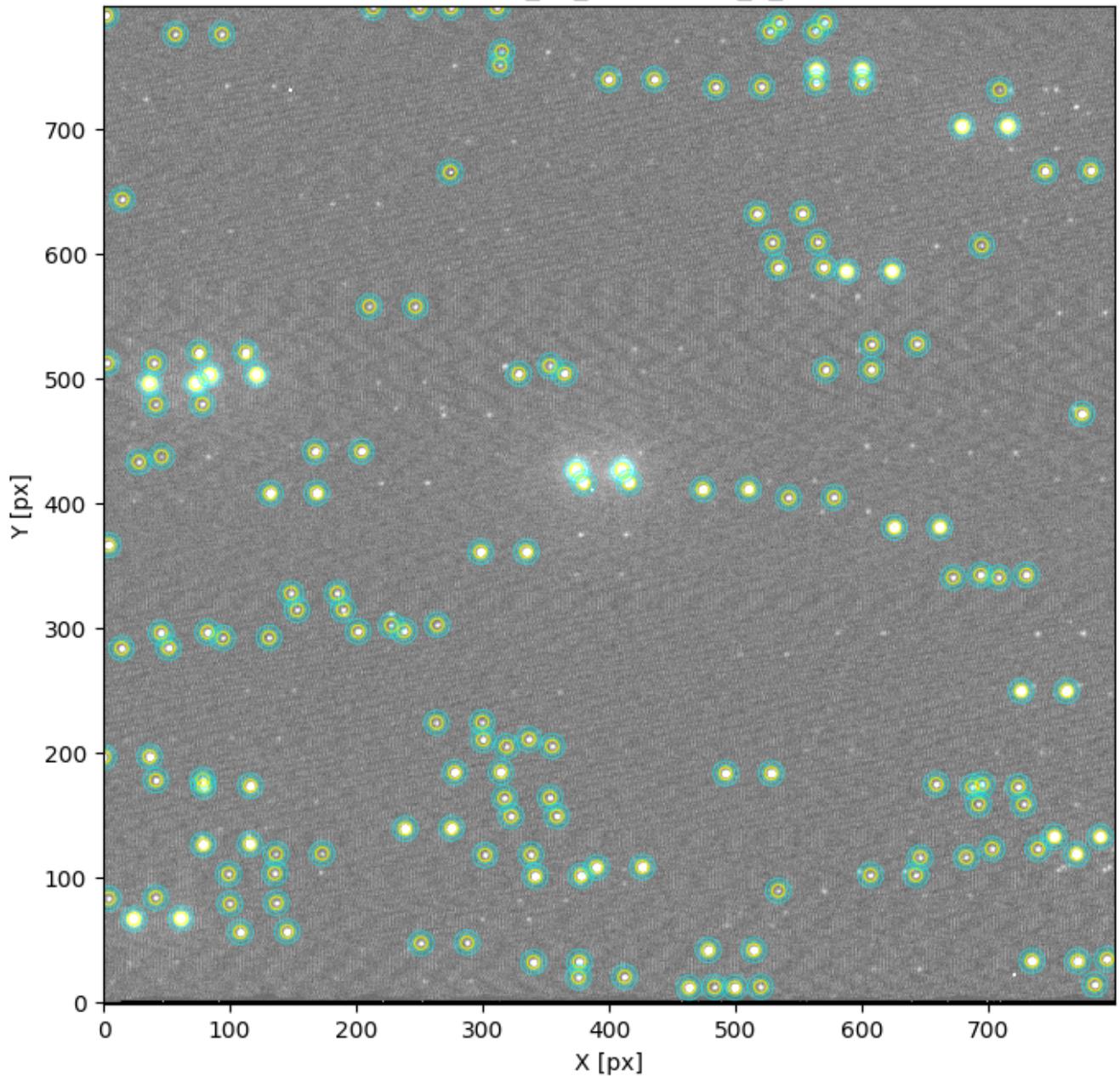
Apertures caf-20230720-21\_44\_01-sci-blap\_b\_f-aligned.fits (r=5px)



Apertures caf-20230720-21\_44\_47-sci-blap\_b\_f-aligned.fits (r=5px)

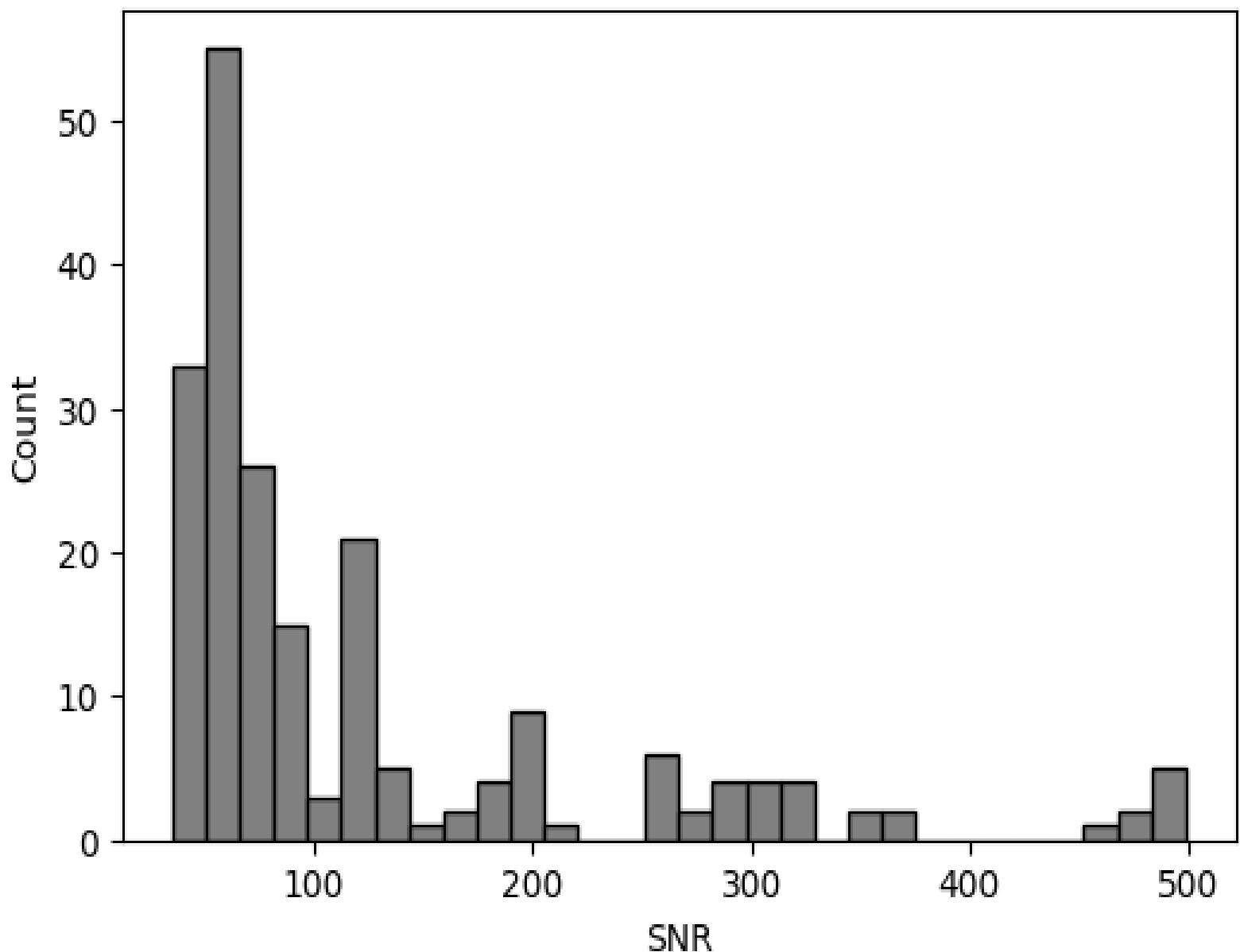


Apertures caf-20230720-21\_45\_33-sci-blap\_b\_f-aligned.fits (r=5px)

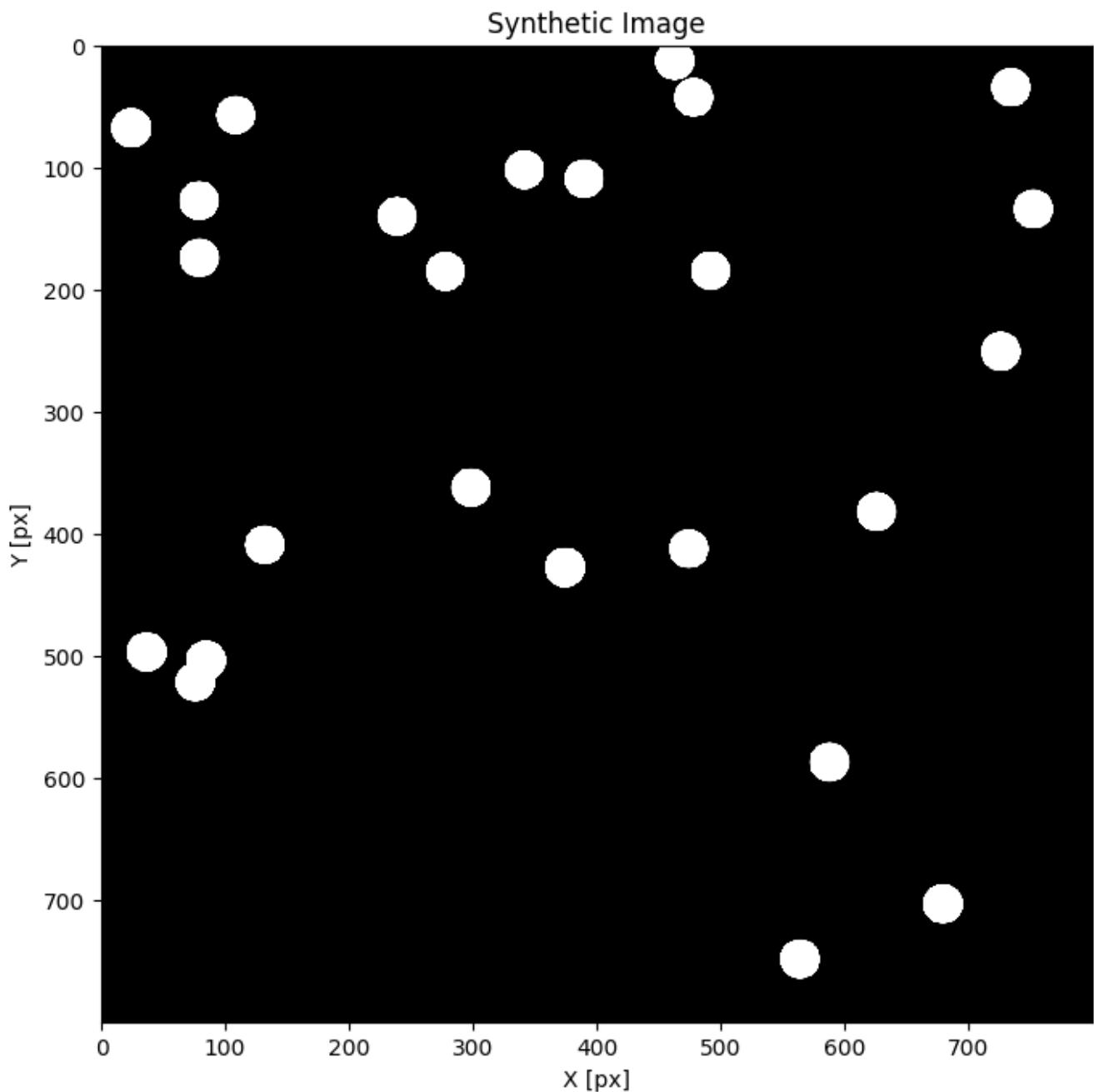


## 4. Fotometría — Histograma de SNR

Distribution of Photometry SNR



## 5. Astrometría — Imagen sintética



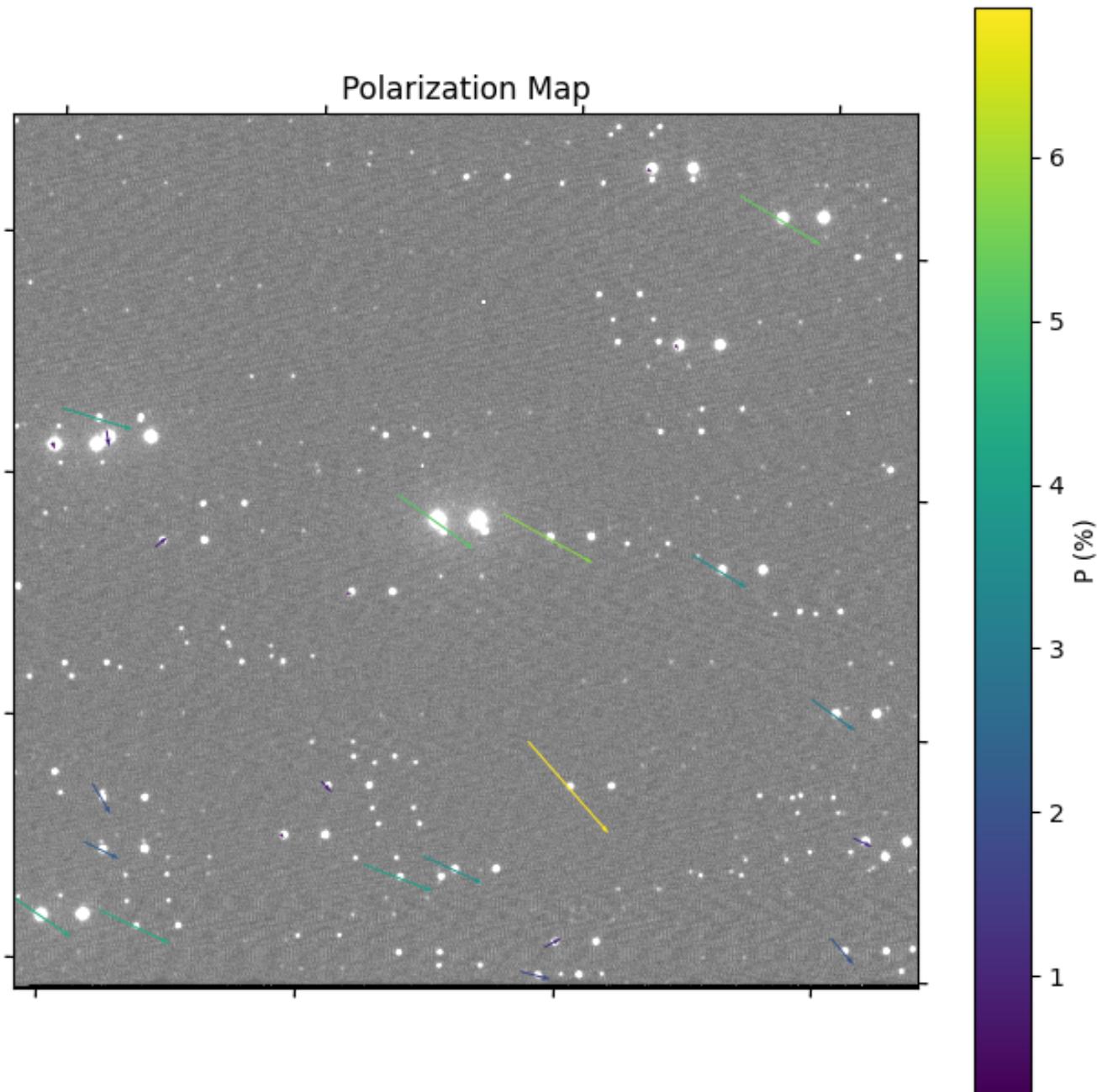
## 5. Astrometría — Resultados SIMBAD

Par	RA (°)	DEC (°)	Simbad ID	Object Type
0	305.790869	39.364479	Gaia DR2 2061240537203705728	EmLine*
4	305.796610	39.403922	NVSS J202309+392352	Radio
5	305.796625	39.366560	Gaia DR2 2061240537203703424	EmLine*
7	305.797211	39.312651	ZTF J202309.36+391845.5	RSCVnV*
8	305.798724	39.300329	TYC 3152-333-1	Star
11	305.806995	39.346361	ZTF J202312.09+392026.0	EclBin
14	305.808652	39.353364	No_ID	
19	305.810236	39.307993	Gaia DR2 2061239403332307840	EmLine*
20	305.815561	39.406114	Gaia DR2 2061428721185185792	EmLine*
21	305.813582	39.331212	Gaia DR2 2061240227966040448	EmLine*
25	305.819073	39.307790	Gaia DR2 2061239403332307840	EmLine*
29	305.823468	39.367894	Gaia DR2 2061240571563430912	EmLine*
30	305.822312	39.336676	Gaia DR2 2061240227966040448	EmLine*
35	305.837426	39.401748	No_ID	
46	305.855820	39.338816	No_ID	
47	305.861583	39.386495	No_ID	
49	305.863682	39.314300	No_ID	
50	305.866360	39.364207	ZTF J202327.47+392137.8	EclBin
52	305.868630	39.349558	BD+38 4058	EclBin
55	305.879681	39.299931	HD 229205	Star
56	305.881257	39.306878	TYC 3152-143-1	Star
61	305.884585	39.305529	TYC 3152-143-1	Star
64	305.900120	39.379965	TYC 3156-168-1	Star
69	305.922699	39.392794	TYC 3156-101-1	Star
74	305.930479	39.375696	TYC 3156-117-1	Star

## 6. Polarimetría — Estimación Interestelar (ISM)

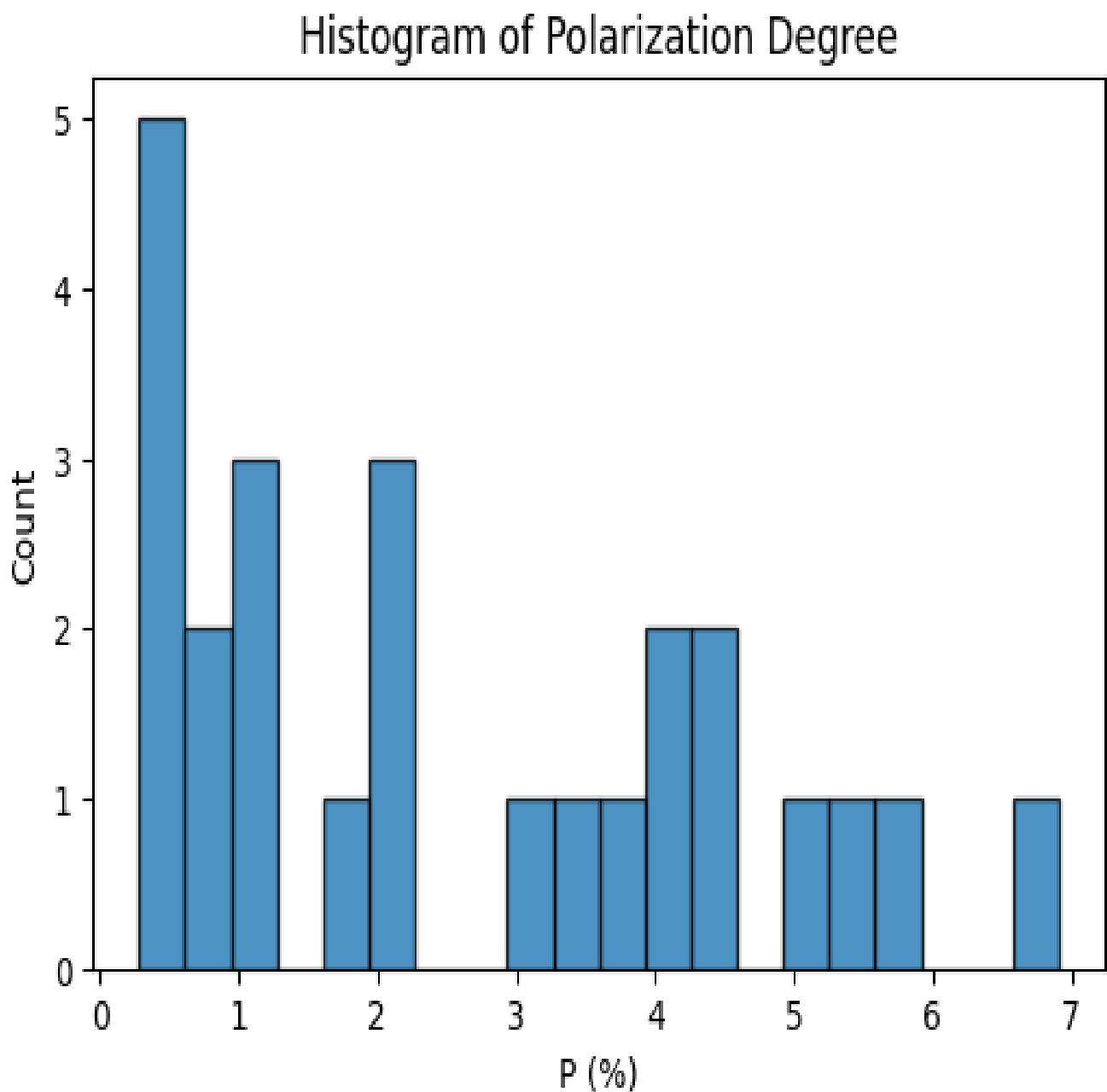
Comp.	Q mean	Q $\sigma$	Q weight	U mean	U $\sigma$	U weight	Dominante Q	Dominante U
0	-0.334	0.418	0.39	-0.409	0.269	0.50		
1	1.372	0.535	0.61	-3.987	0.833	0.50	✓	✓

## 6. Polarimetría — Mapa de polarización



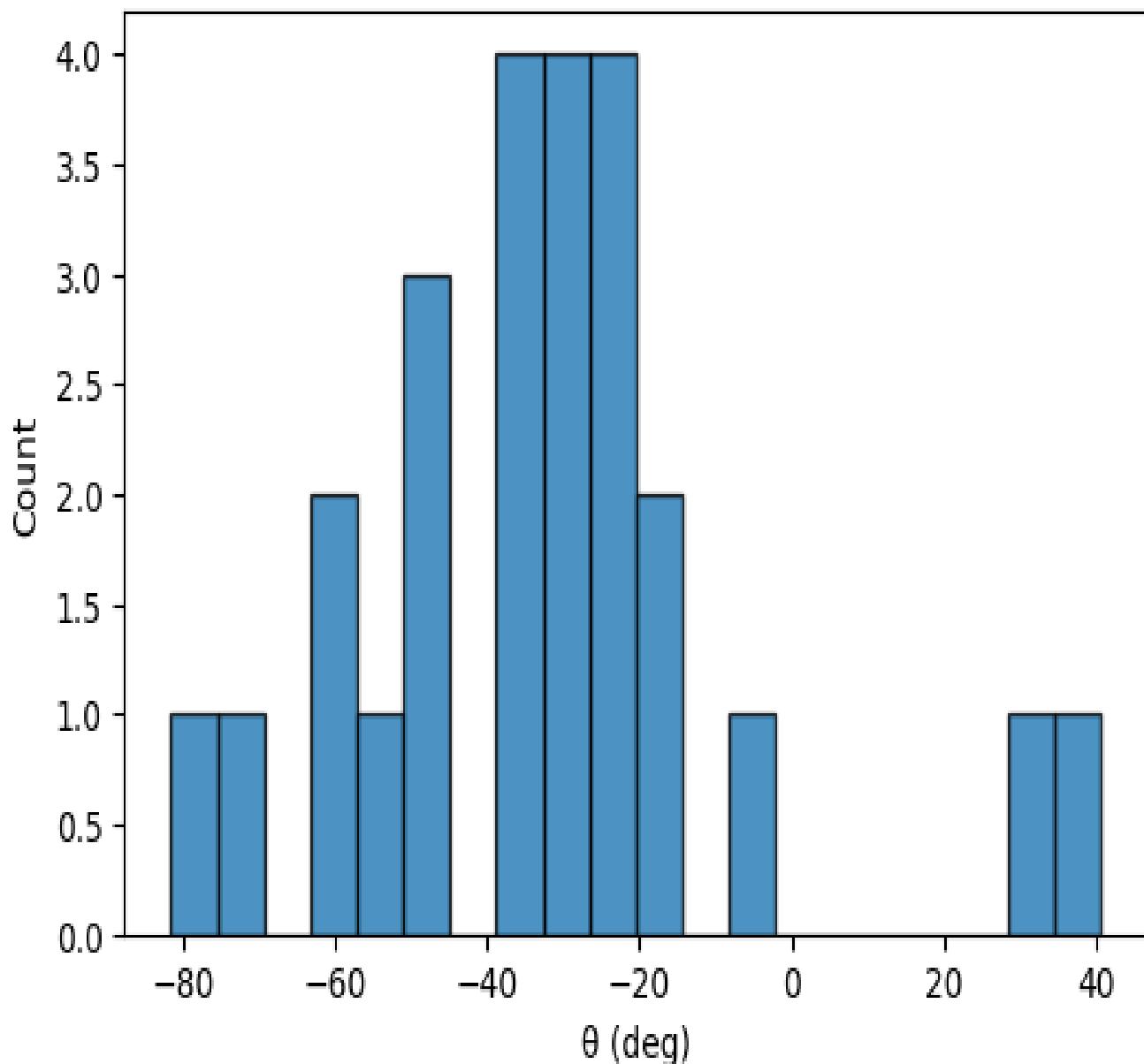


## 6. Polarimetría — Histograma de P

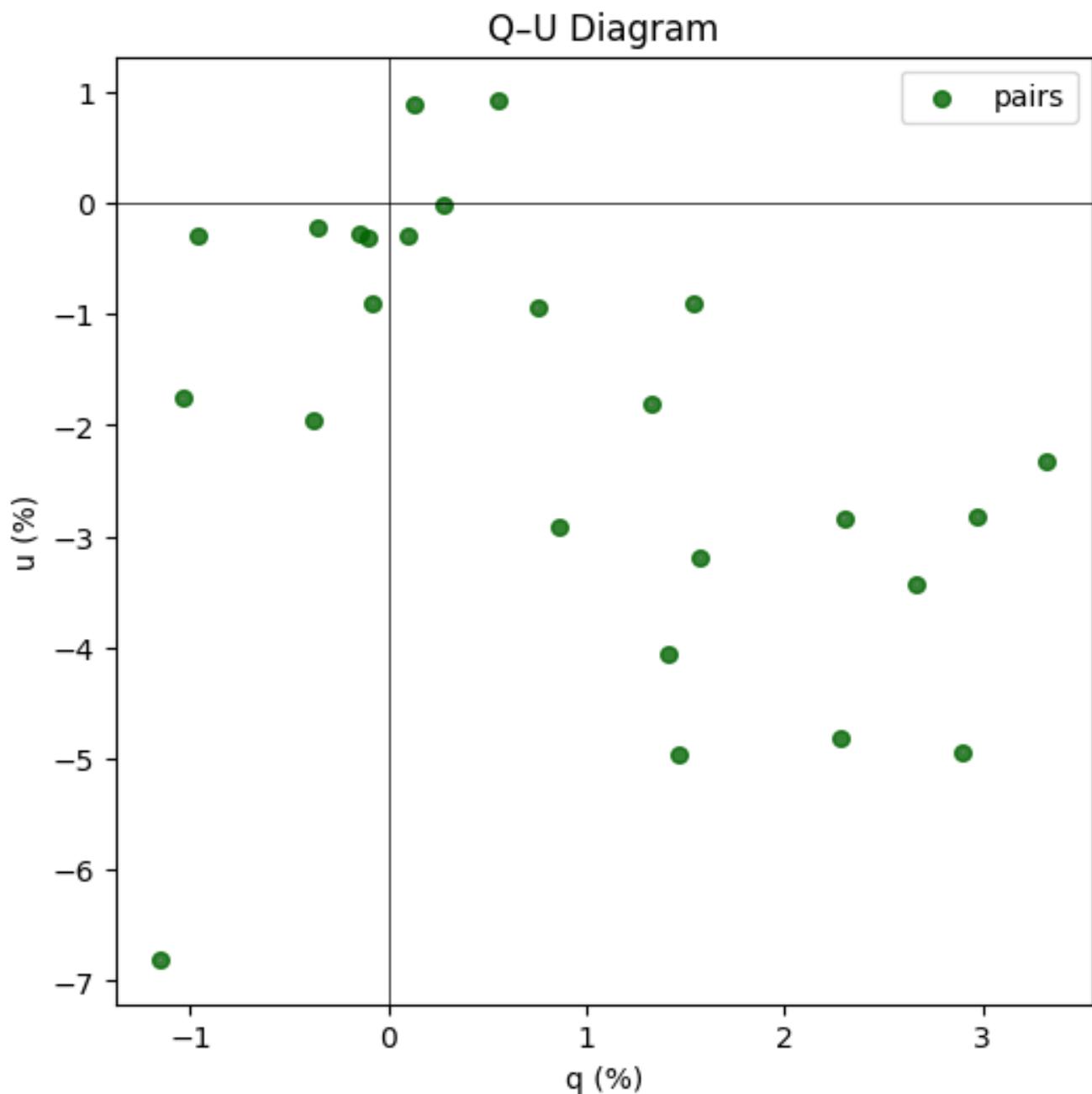


## 6. Polarimetría — Histograma de $\theta$

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
0	-0.334	0.418	0.39	-0.409	0.269	0.50		
1	1.372	0.535	0.61	-3.987	0.833	0.50	✓	✓

### Explicación de columnas:

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

**Q sigmas:** desviaciones estándar ( $\sigma$ ) de los componentes gaussianos ajustados a q.

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

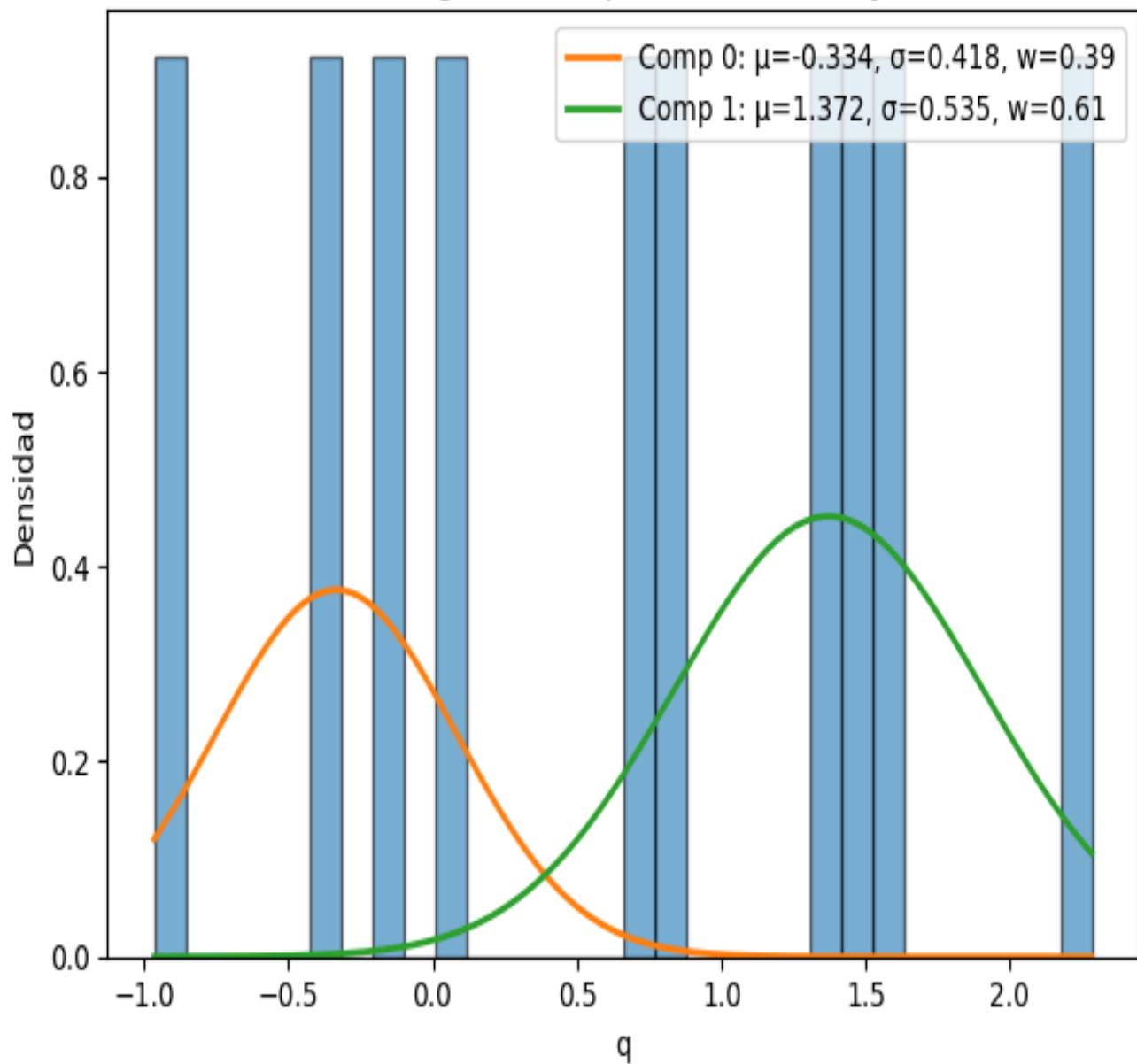
**U Means:** medias de la componente u estimada para la polarización interestelar.

**U sigmas:** desviaciones estándar ( $\sigma$ ) de los componentes gaussianos ajustados a u.

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

## 6. Polarimetría — Estimación ISM Q

### Histograma de $q$ con GMM overlay



## 6. Polarimetría — Estimacion ISM U

