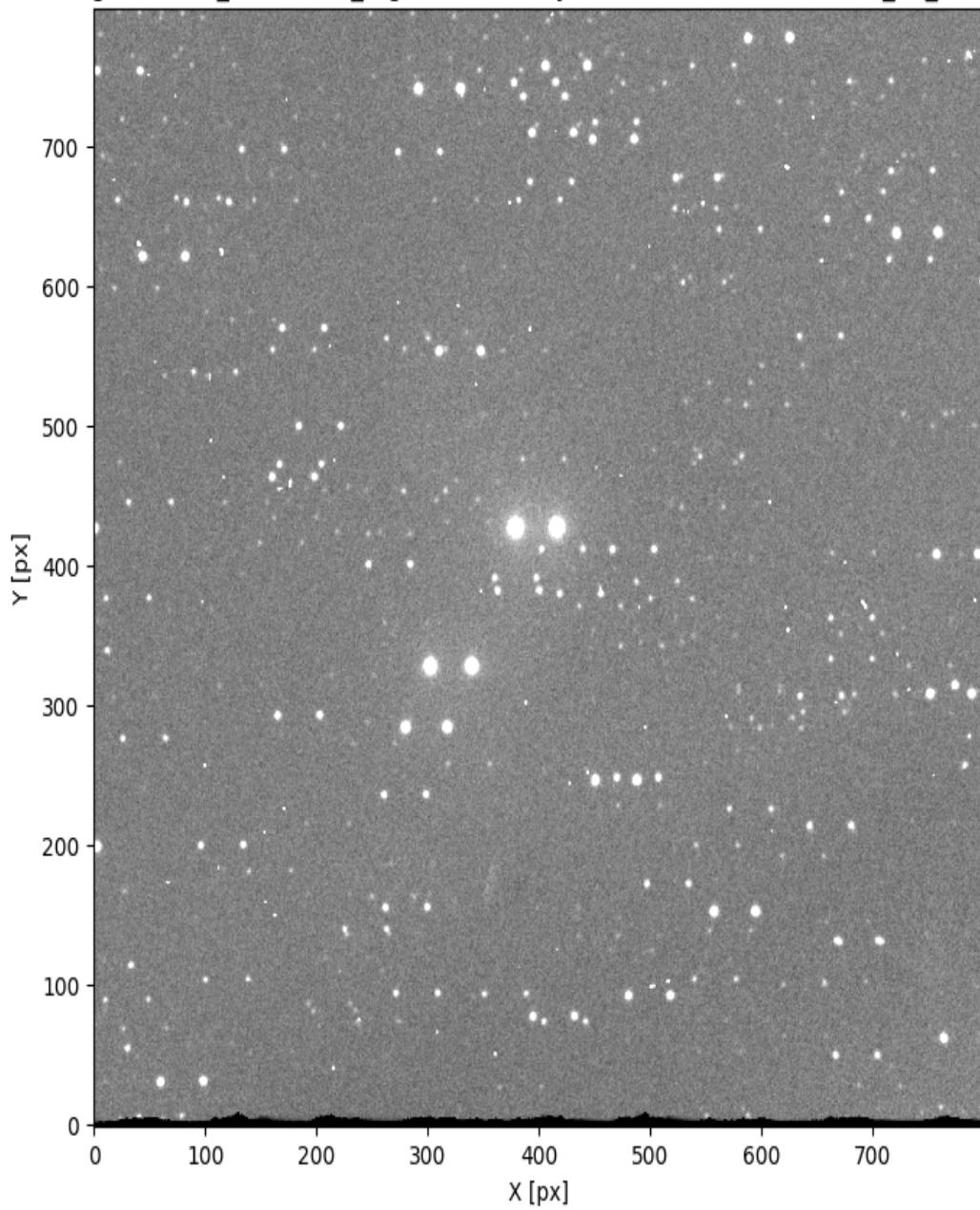
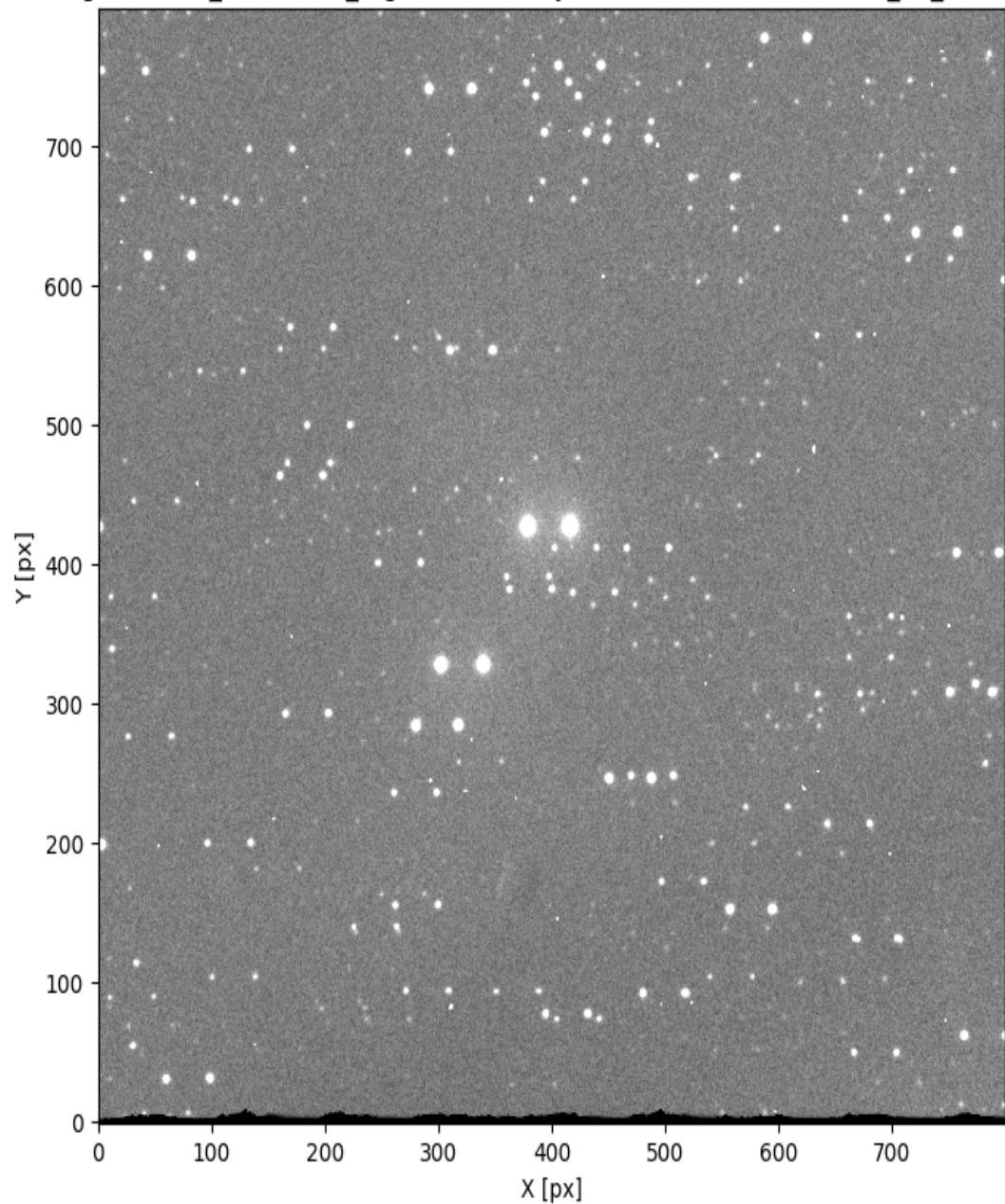


# 1. Imágenes originales

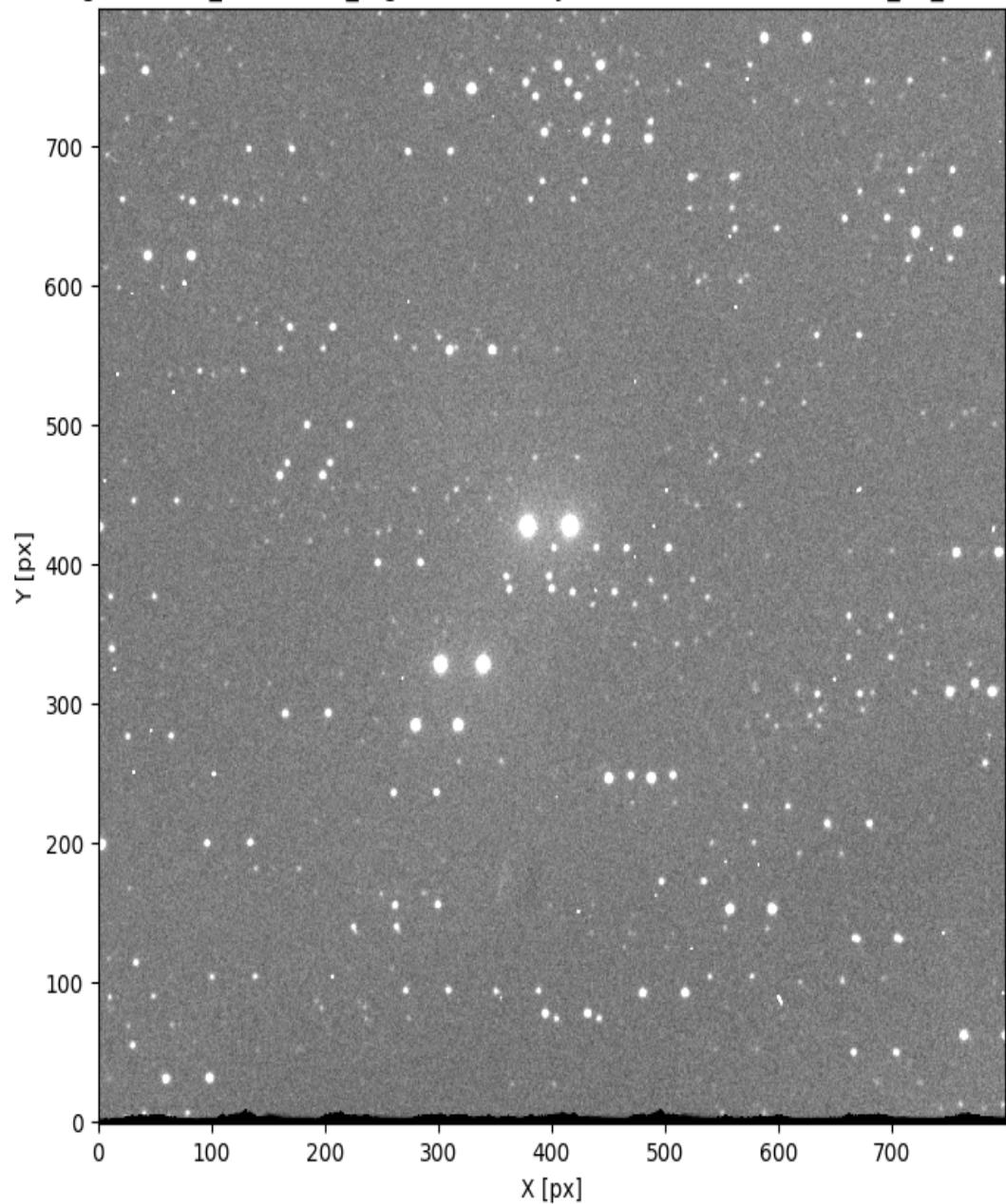
Reference Image noche1\_20230720\_organize/SS397/JohnsonB/caf-20230720-22\_30\_03-sci-blap\_b\_f.fits



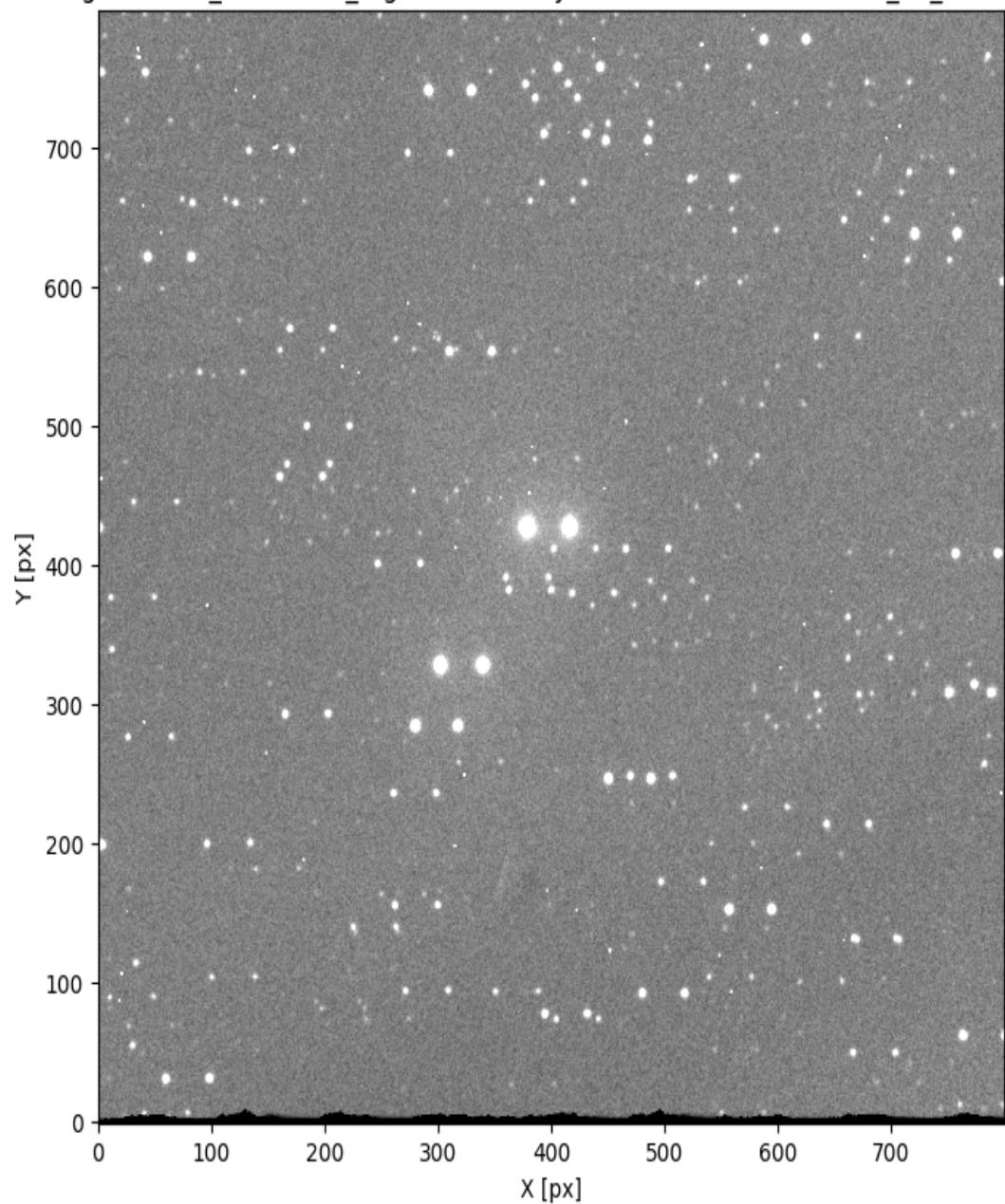
Original Image noche1\_20230720\_organize/SS397/JohnsonB/caf-20230720-22\_34\_27-sci-blap\_b\_f.fits



Original Image noche1\_20230720\_organize/SS397/JohnsonB/caf-20230720-22\_38\_50-sci-blap\_b\_f.fits

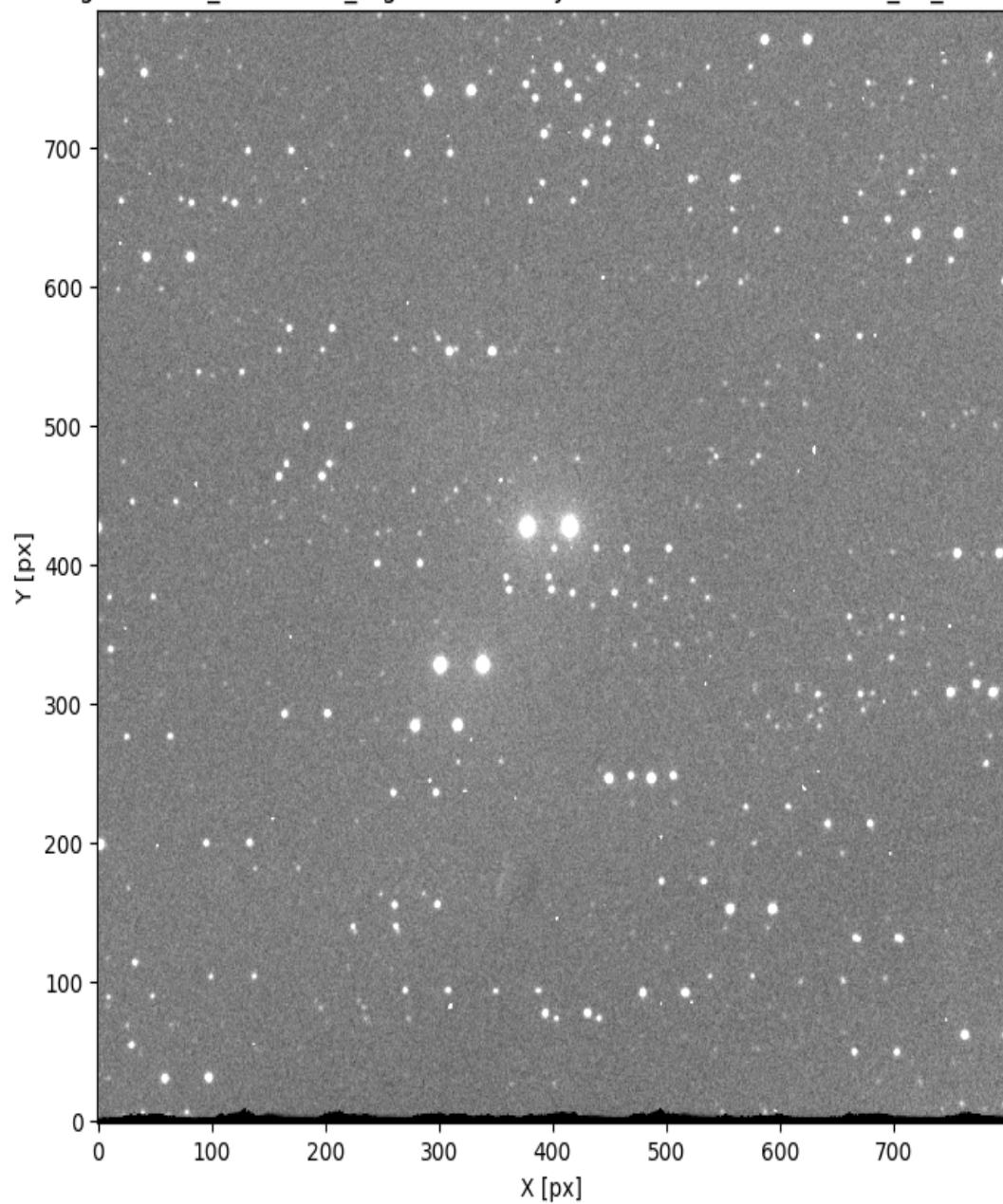


Original Image noche1\_20230720\_organize/SS397/JohnsonB/caf-20230720-22\_43\_14-sci-blap\_b\_f.fits

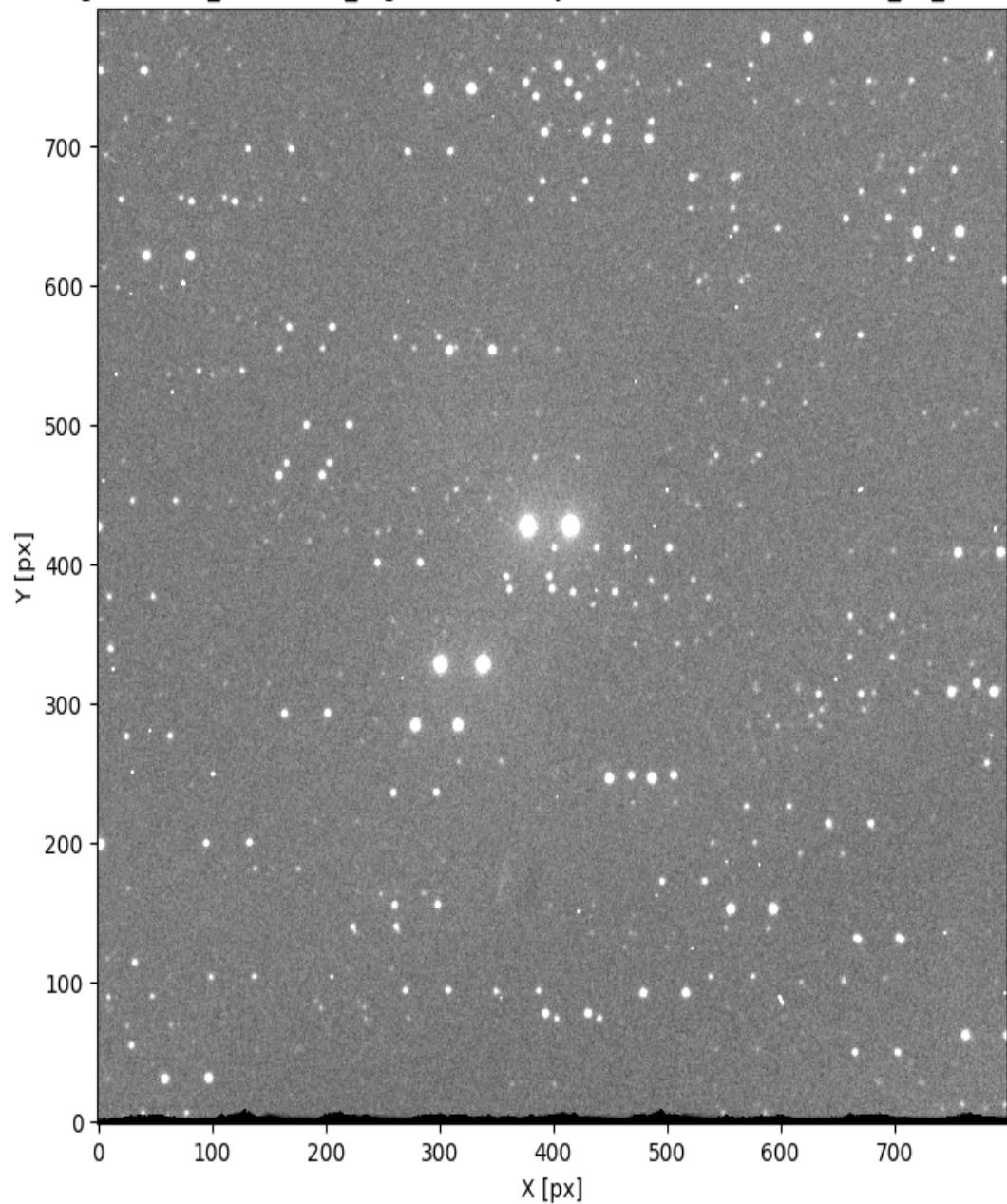


## 2. Imágenes alineadas

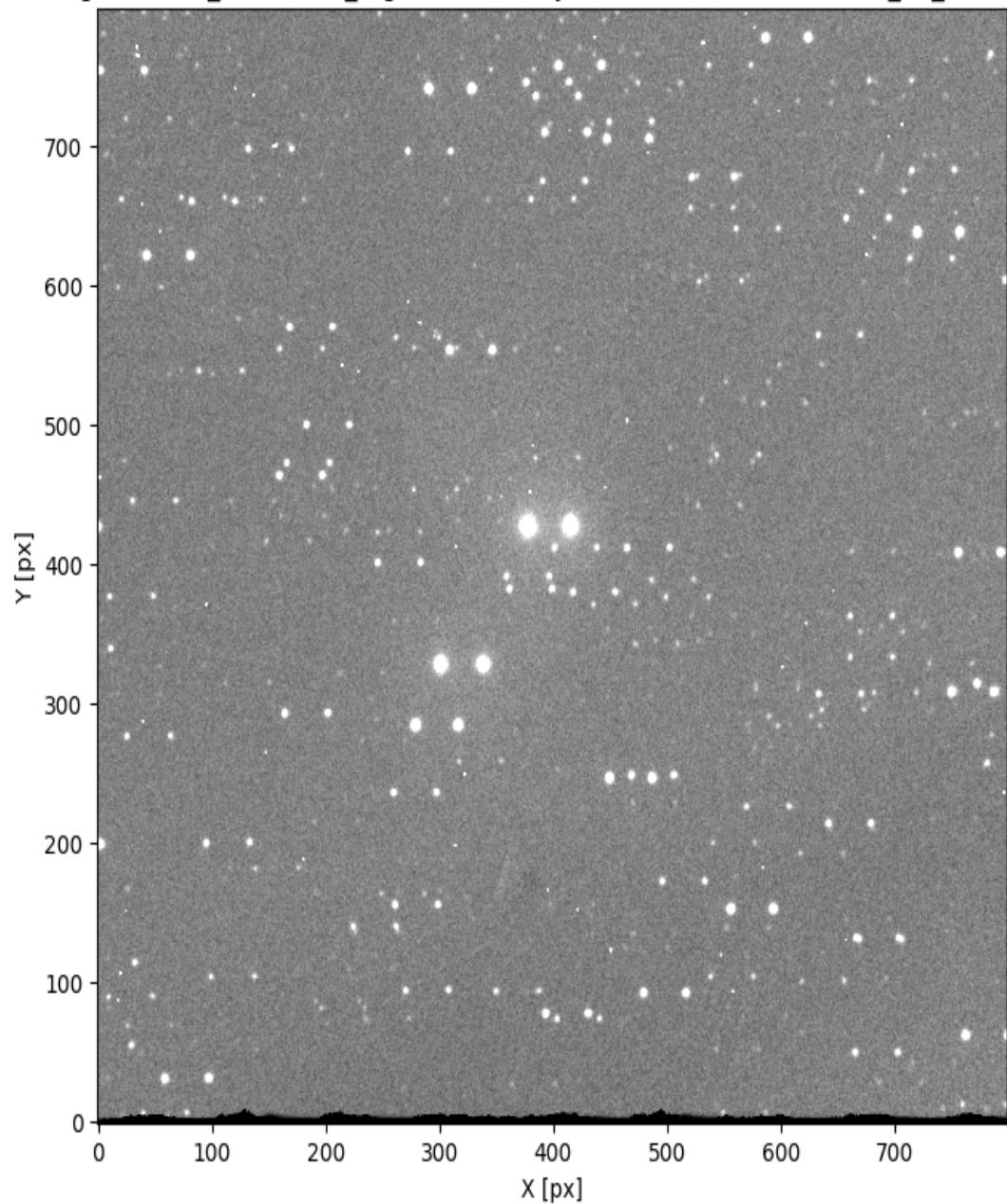
Aligned Image noche1\_20230720\_organize/SS397/JohnsonB/caf-20230720-22\_34\_27-sci-blap\_b\_f.fits



Aligned Image noche1\_20230720\_organize/SS397/JohnsonB/caf-20230720-22\_38\_50-sci-blap\_b\_f.fits

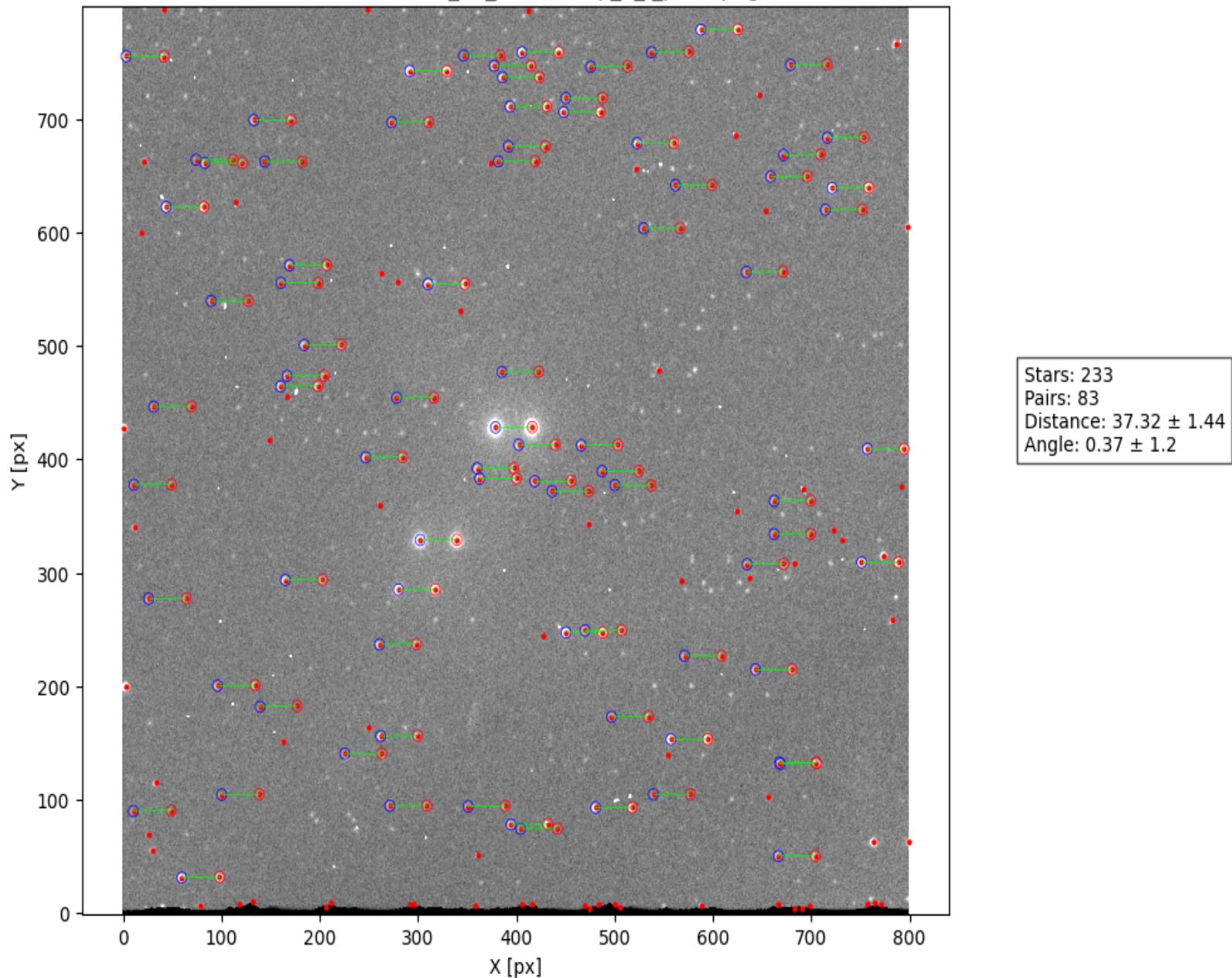


Aligned Image noche1\_20230720\_organize/SS397/JohnsonB/caf-20230720-22\_43\_14-sci-blap\_b\_f.fits

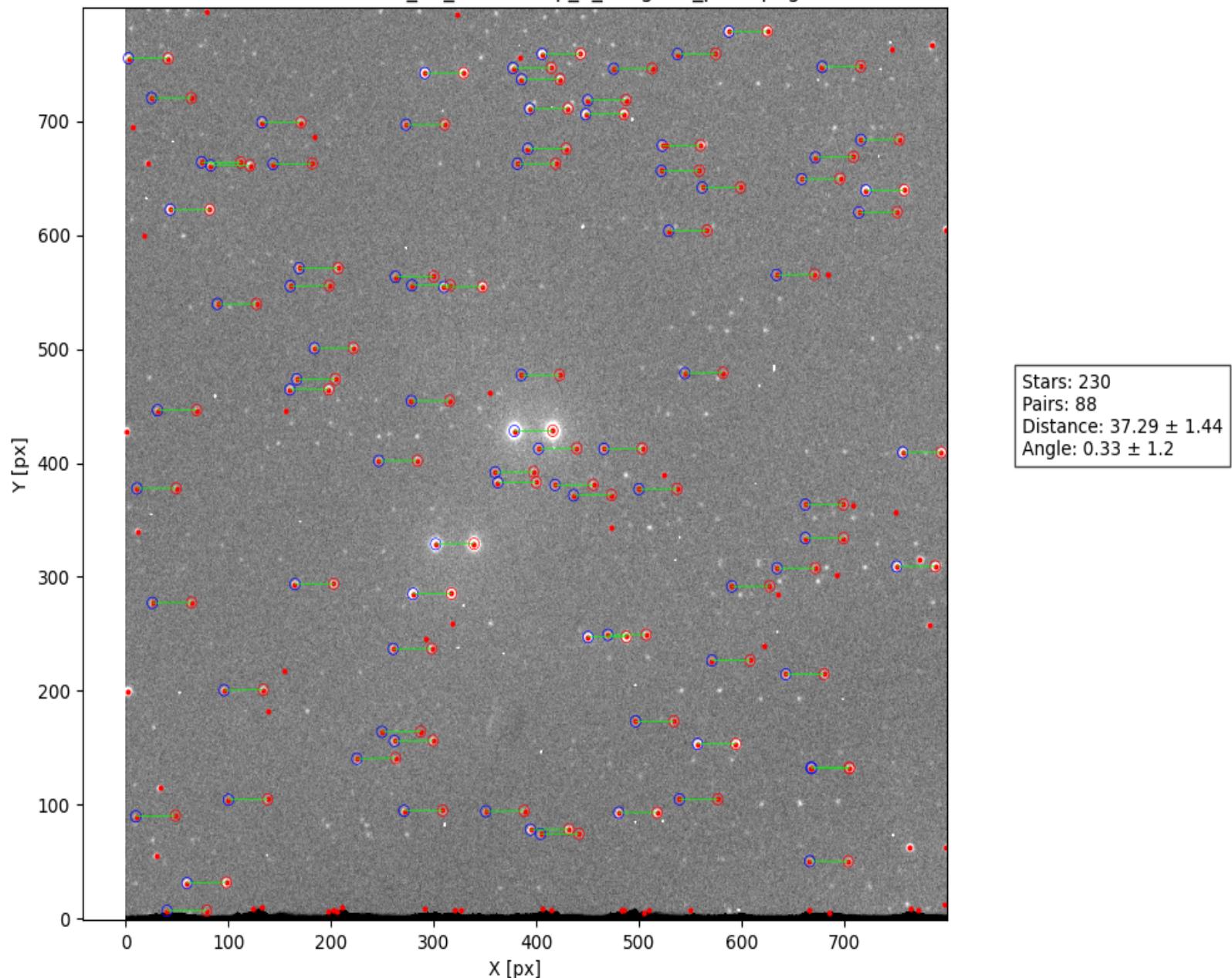


### 3. Imágenes con pares identificados

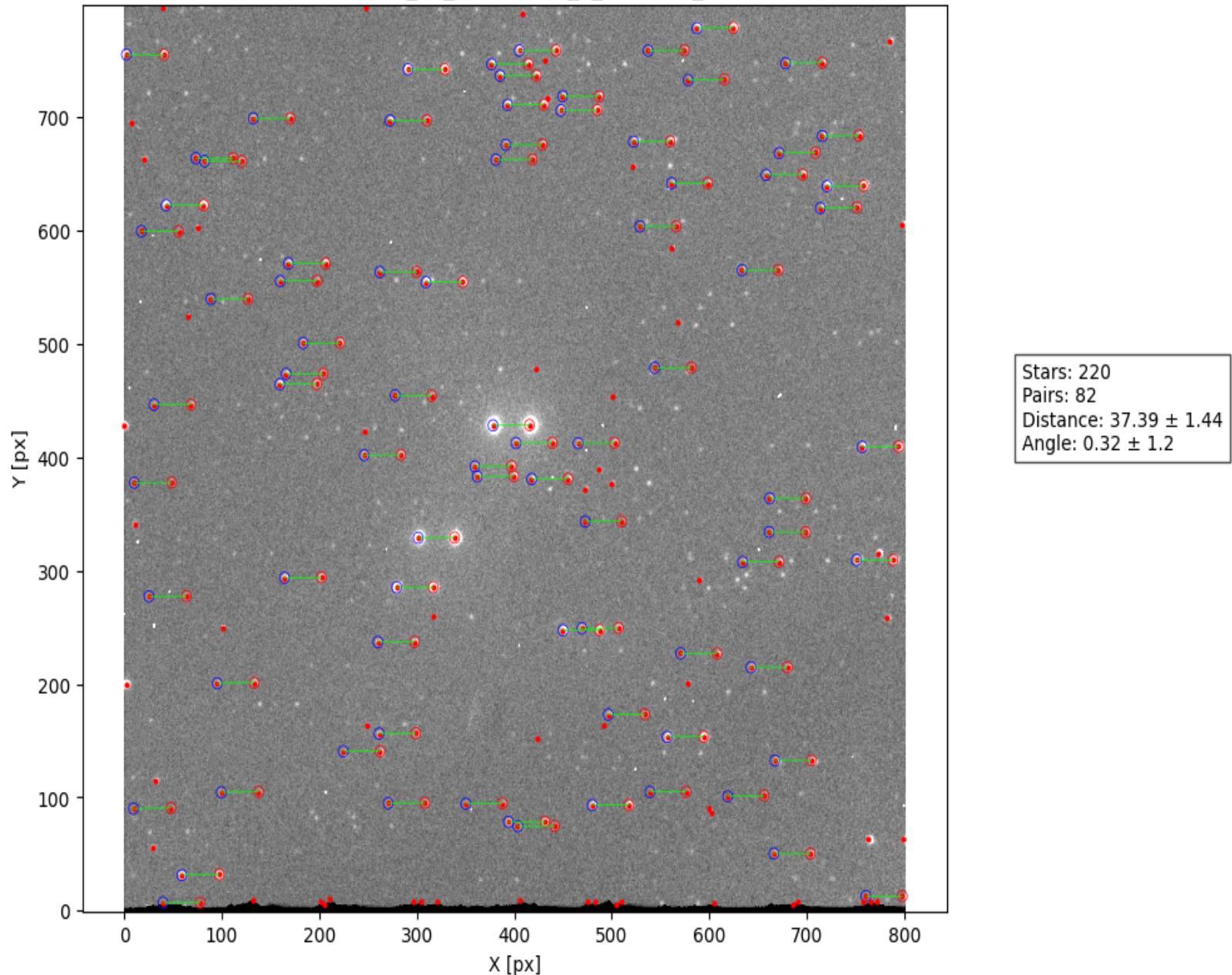
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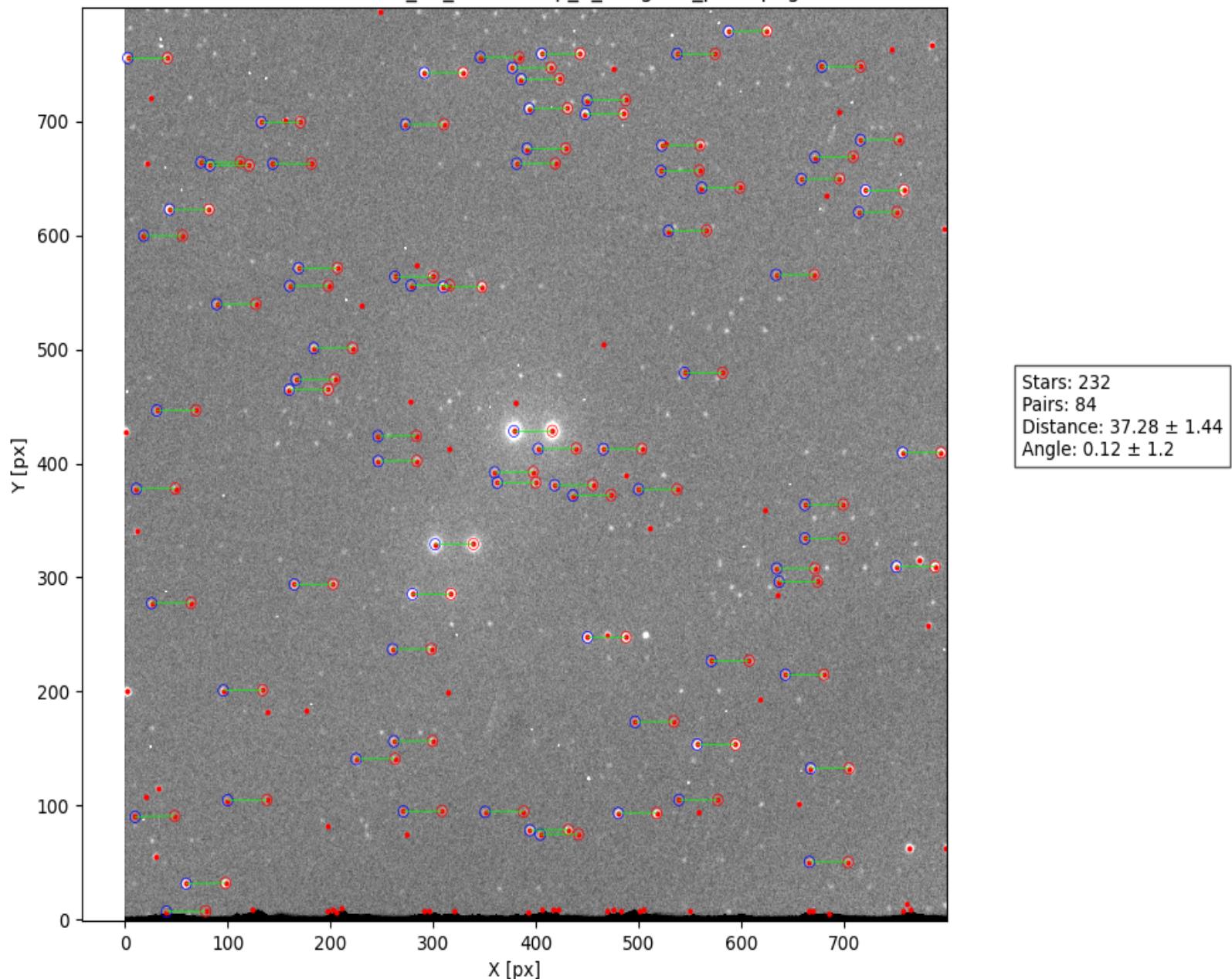
caf-20230720-22\_34\_27-sci-blap\_b\_f-aligned\_pairs.png



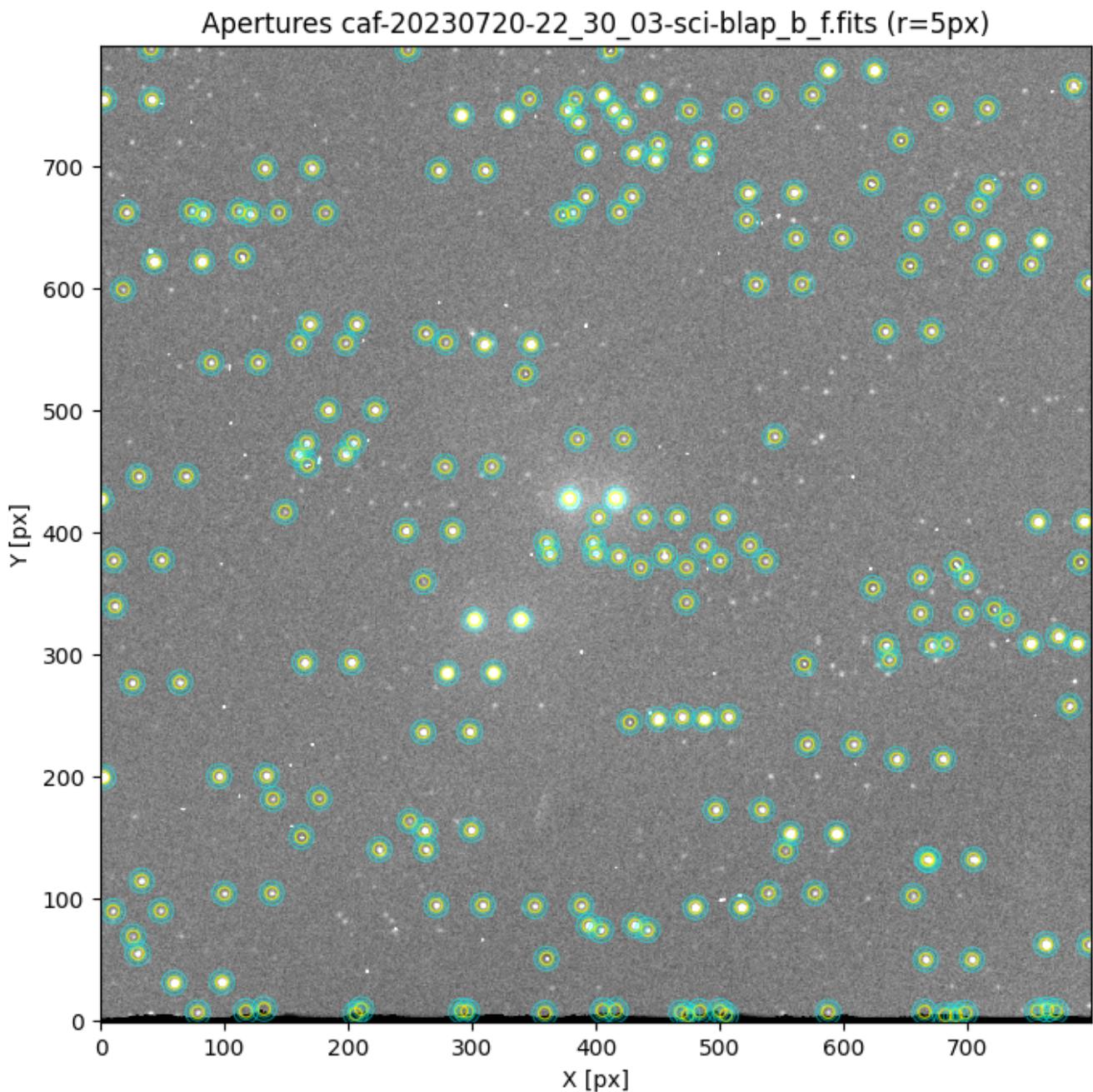
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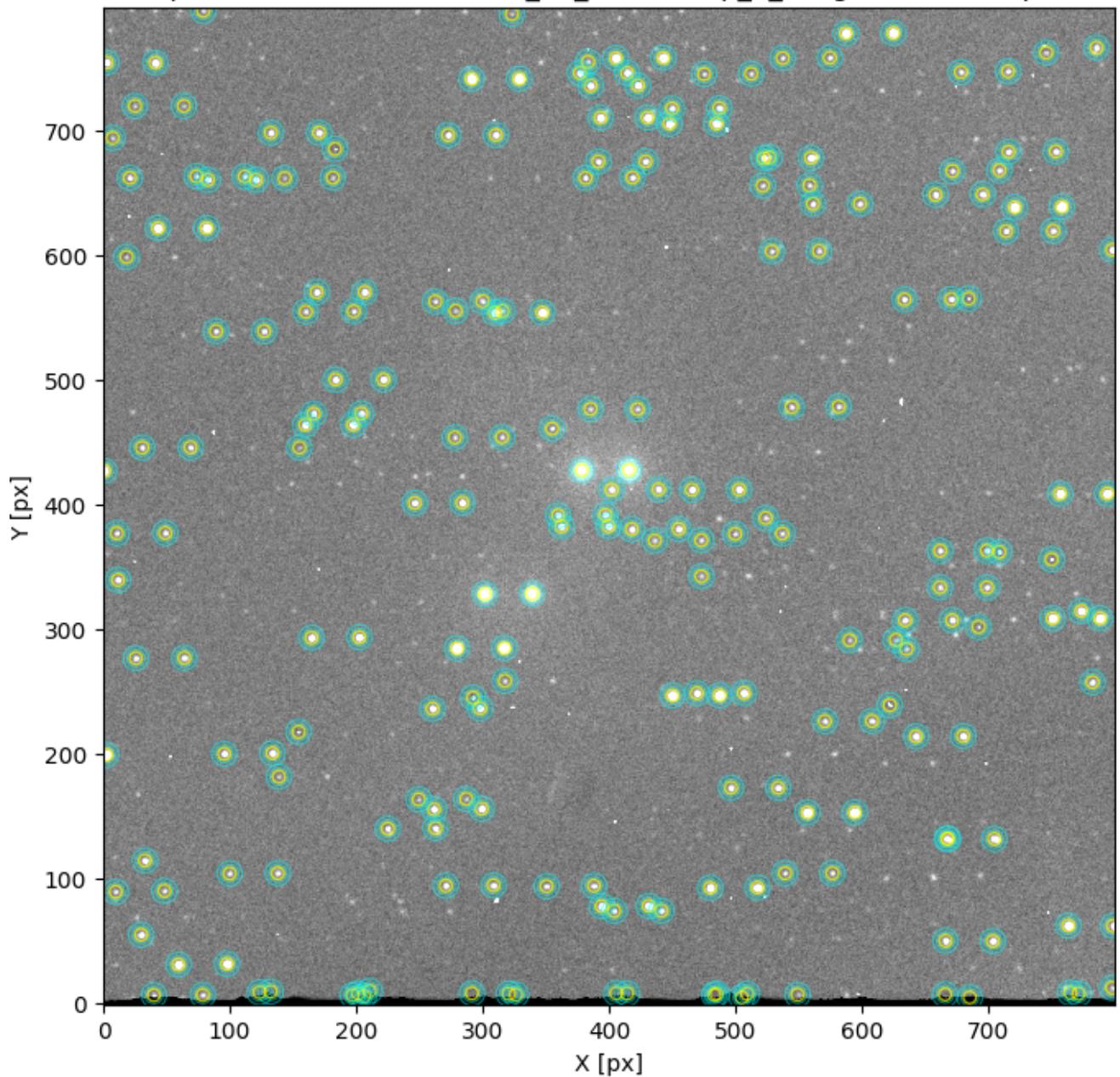
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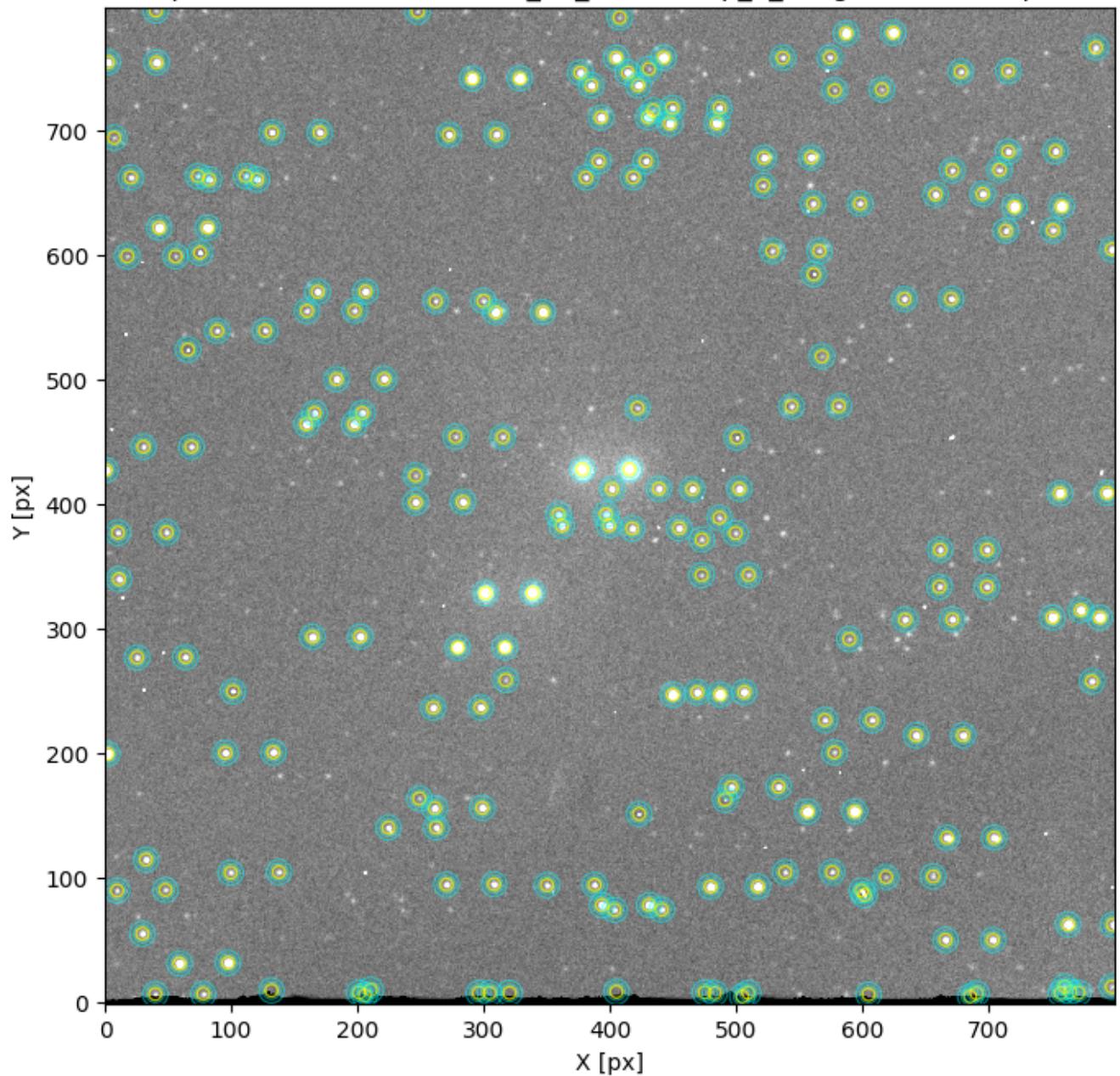
## 4. Fotometría — Aperturas



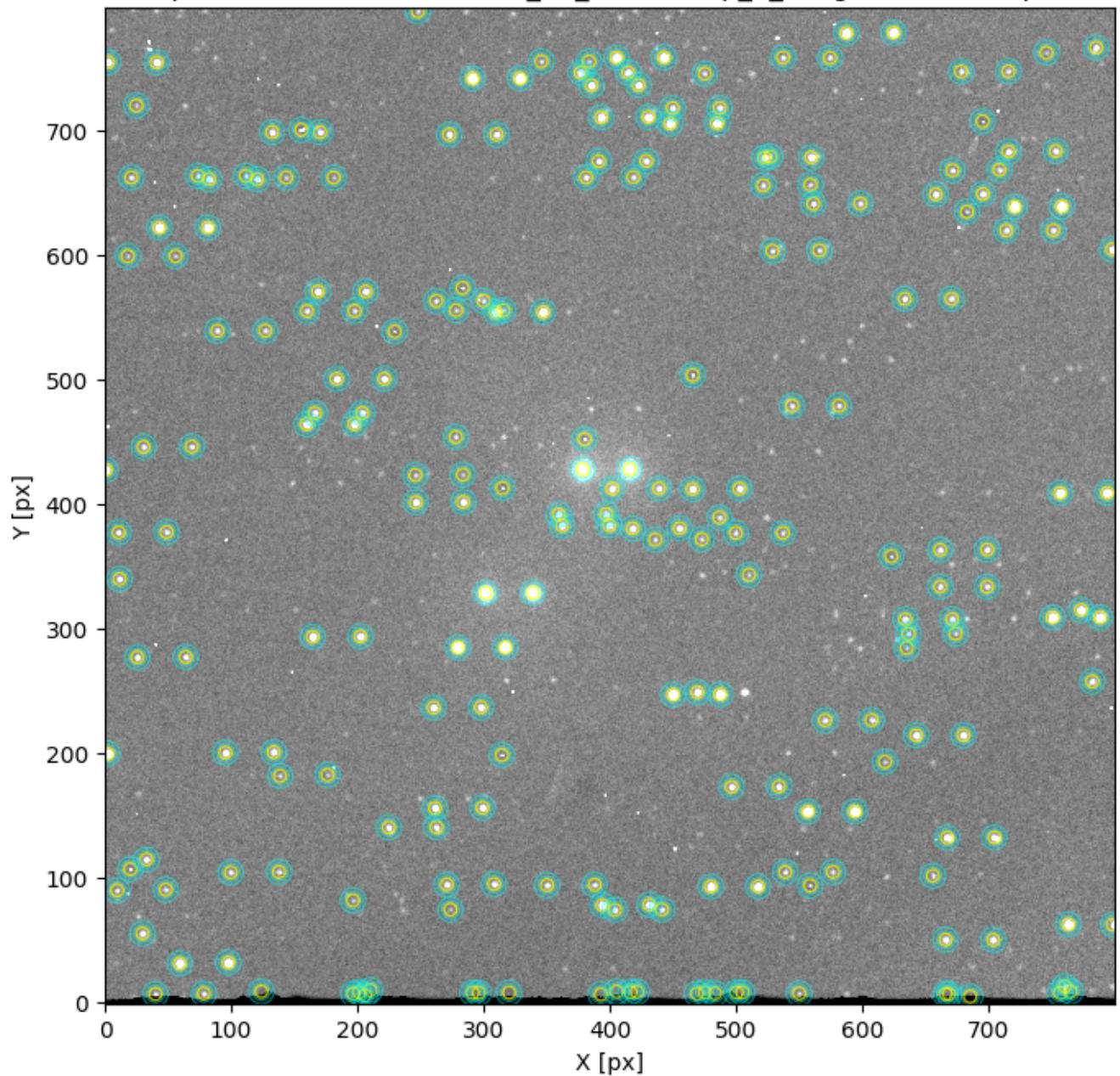
Apertures caf-20230720-22\_34\_27-sci-blap\_b\_f-aligned.fits (r=5px)



Apertures caf-20230720-22\_38\_50-sci-blap\_b\_f-aligned.fits (r=5px)

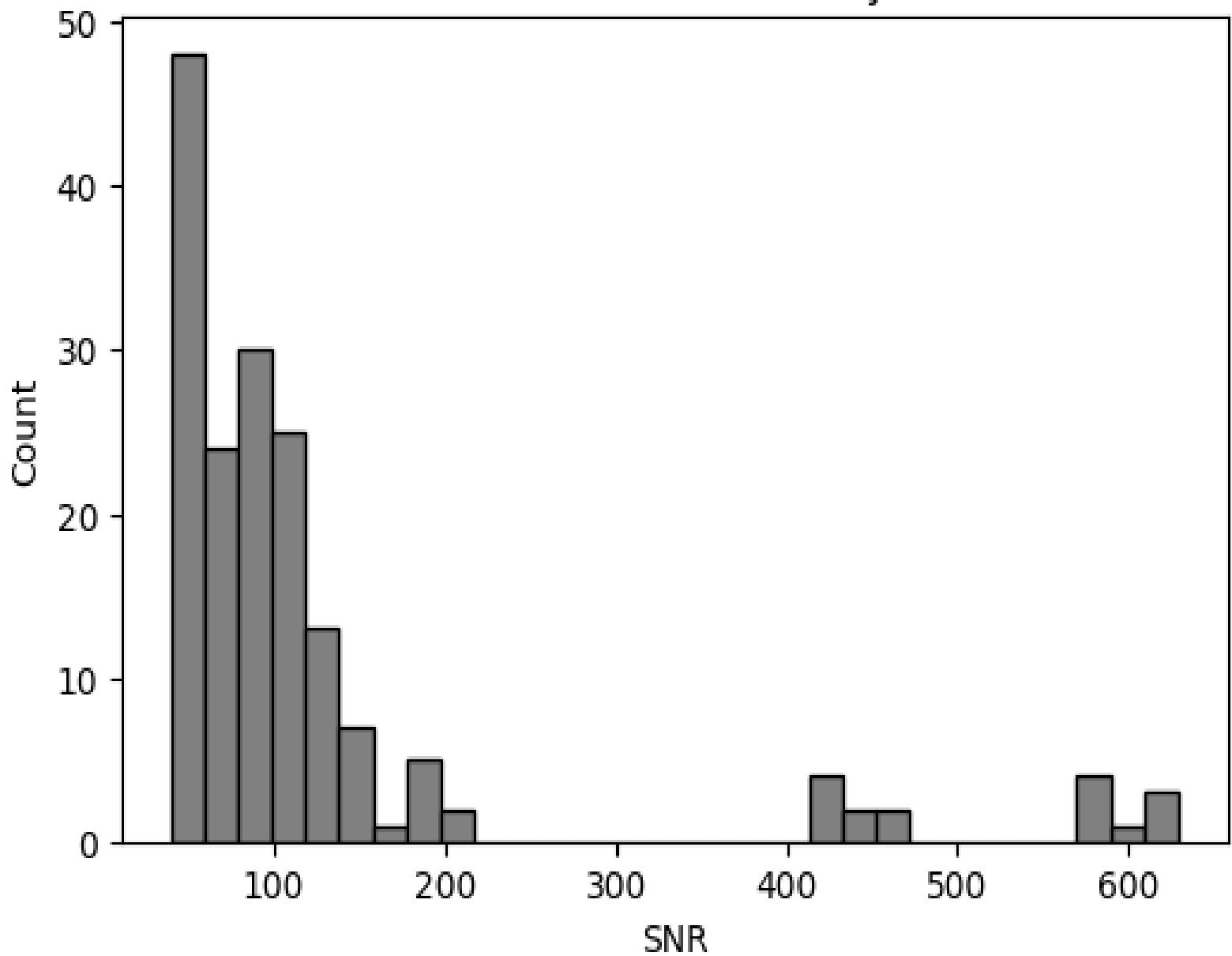


Apertures caf-20230720-22\_43\_14-sci-blap\_b\_f-aligned.fits (r=5px)

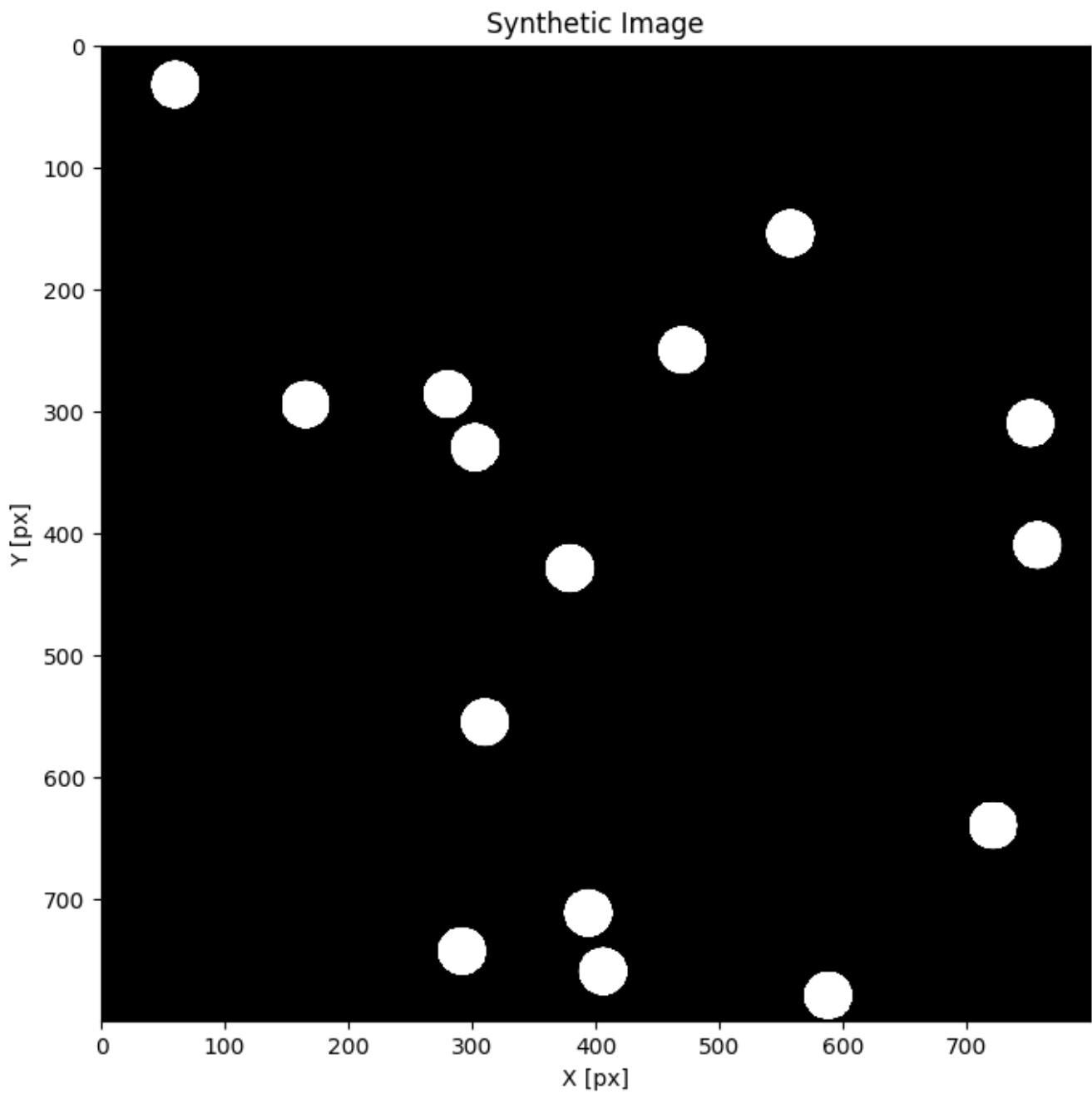


## 4. Fotometría — Histograma de SNR

Distribution of Photometry SNR



## 5. Astrometría — Imagen sintética



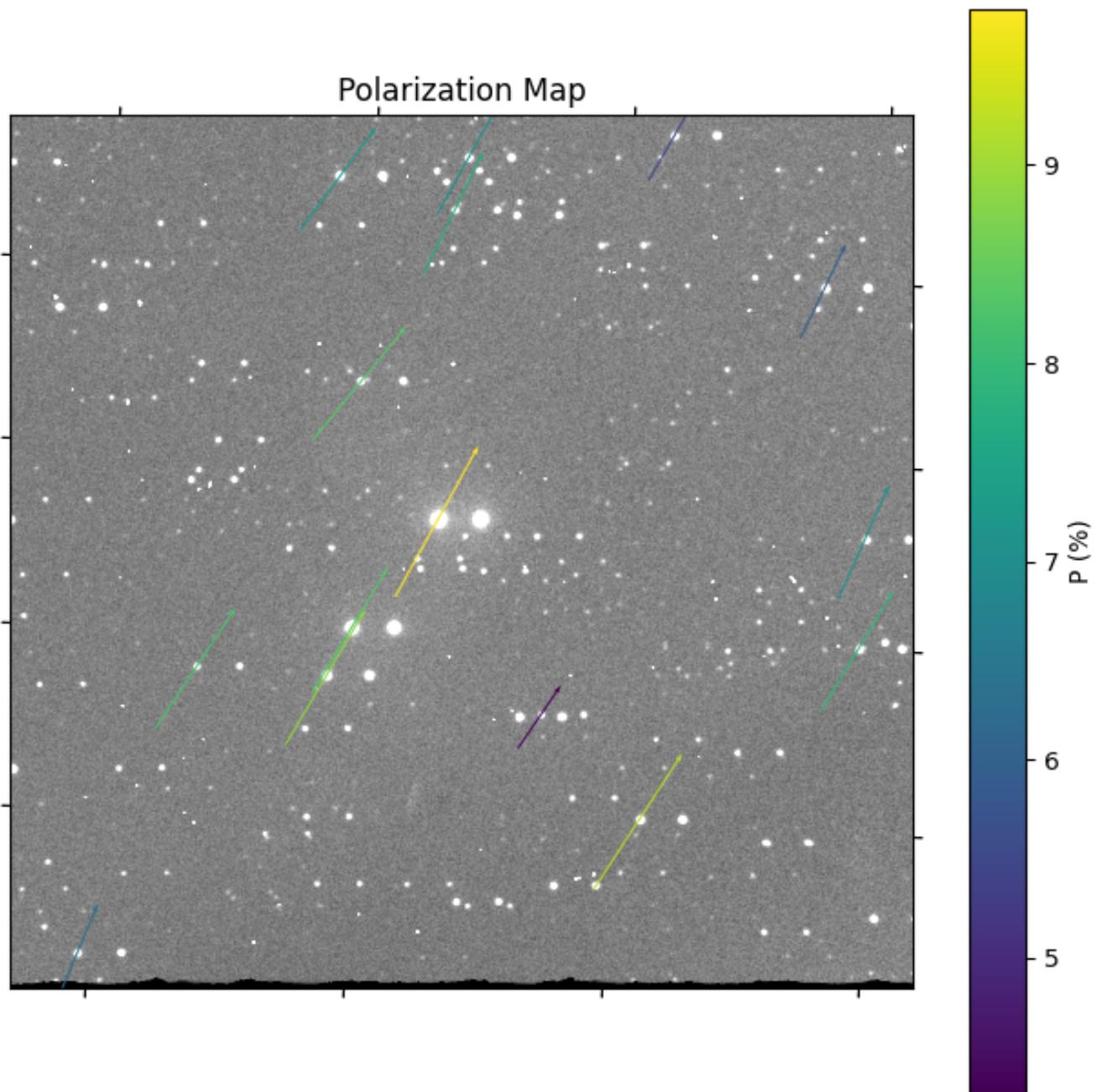
## 5. Astrometría — Resultados SIMBAD

Par	RA (°)	DEC (°)	Simbad ID	Object Type
0	278.305037	-10.634559	No_ID	
13	278.325708	-10.562719	Gaia DR3 4155011255481947264	Star
22	278.339432	-10.576015	Gaia DR2 4155011186762449152	Star
24	278.343767	-10.603905	Gaia DR3 4154999298292954752	Star
25	278.344453	-10.620704	No_ID	
27	278.349916	-10.535224	Gaia DR3 4155013076548080640	Star
28	278.350373	-10.600922	Gaia DR3 4154999328346069632	Star
39	278.364798	-10.534901	No_ID	
42	278.365511	-10.590278	ATO J278.3657-10.5901	HighMassXBin
50	278.383928	-10.600974	Gaia DR3 4155000638322721664	Star
57	278.398770	-10.541370	Gaia DR2 4155001458649122304	Star
71	278.407652	-10.589606	Gaia DR2 4155000668375096320	Star
74	278.411774	-10.604658	No_ID	
80	278.414847	-10.588090	No_ID	
82	278.418789	-10.561588	Gaia DR2 4155000810121416704	Star

## 6. Polarimetría — Estimación Interestelar (ISM)

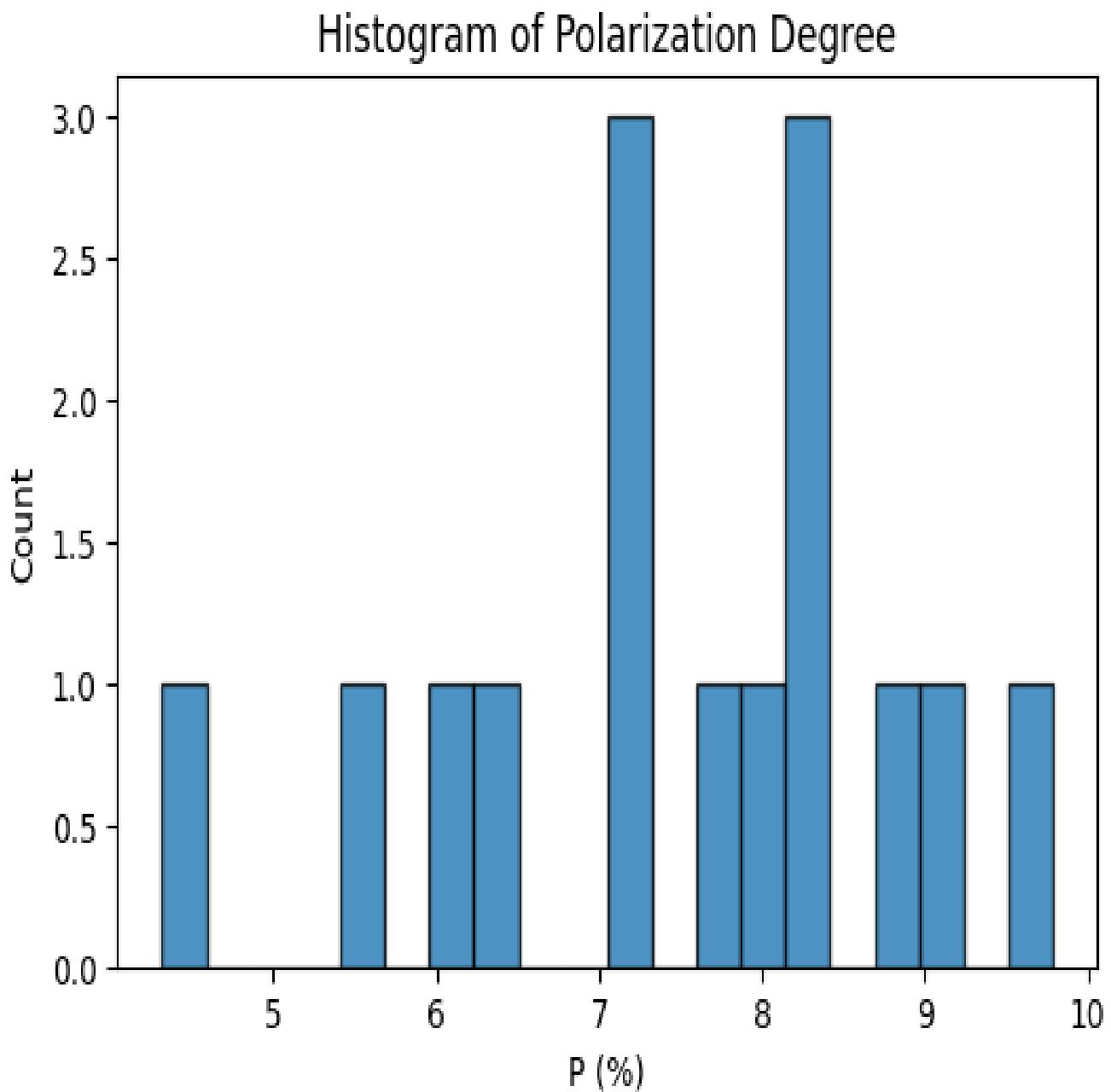
Comp.	Q mean	Q $\sigma$	Q weight	U mean	U $\sigma$	U weight	Dominante Q	Dominante U
0	-4.303	0.647	0.74	7.643	0.521	0.71	✓	✓
1	-2.580	0.296	0.26	4.610	0.034	0.29		

## 6. Polarimetría — Mapa de polarización

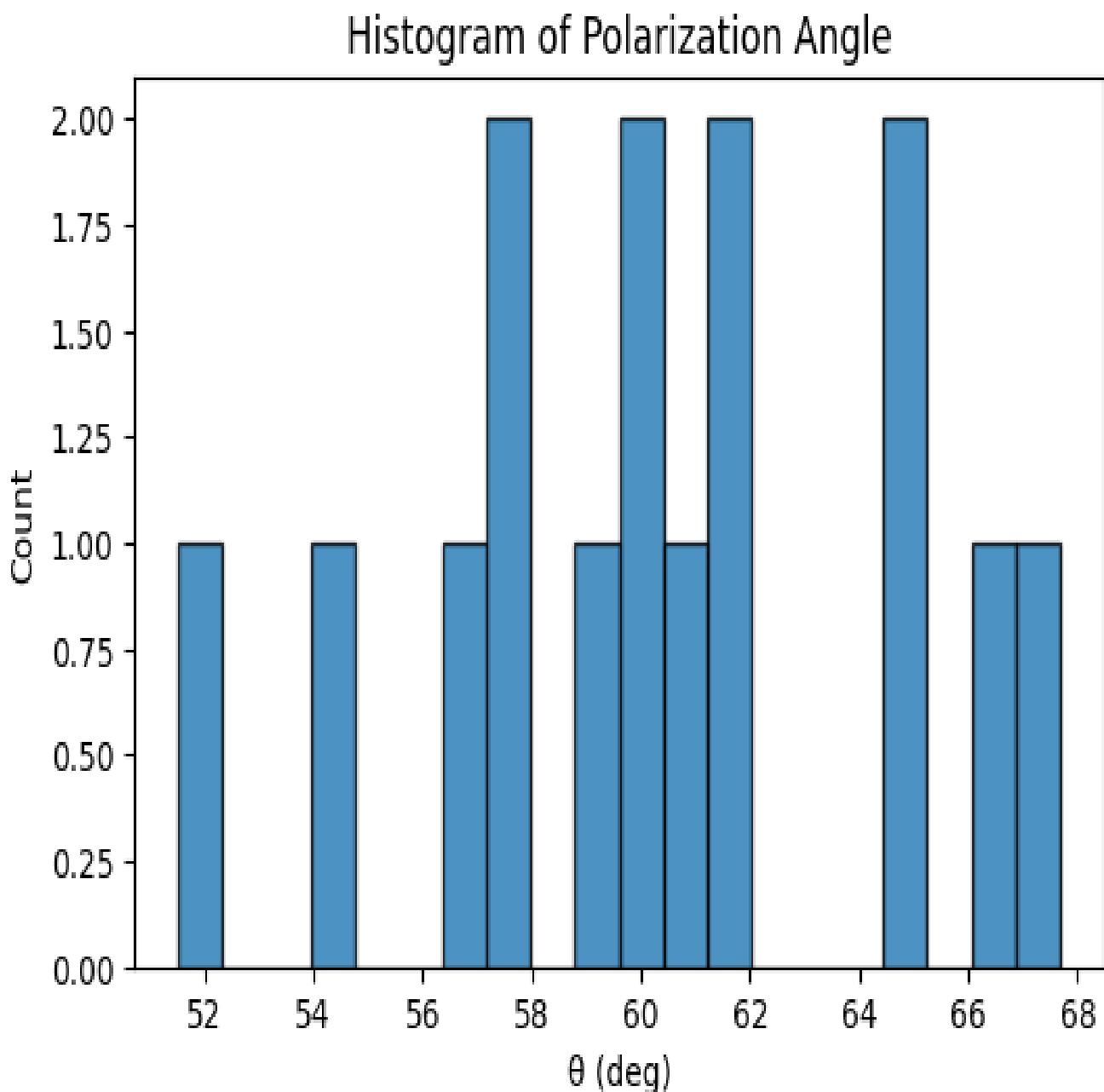




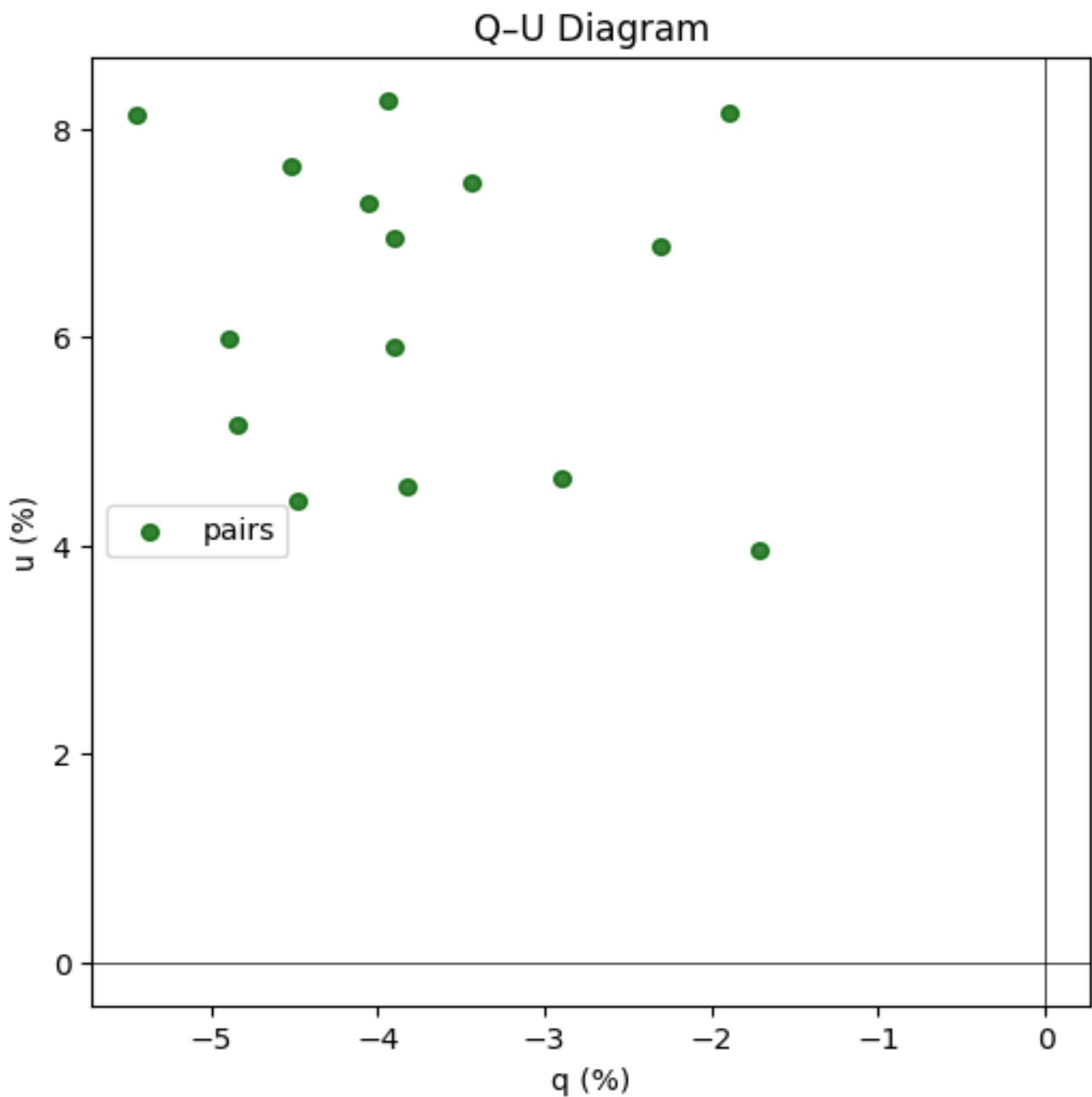
## 6. Polarimetría — Histograma de P



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



## 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	-2.580	0.296	0.26	4.610	0.034	0.29		

### 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.

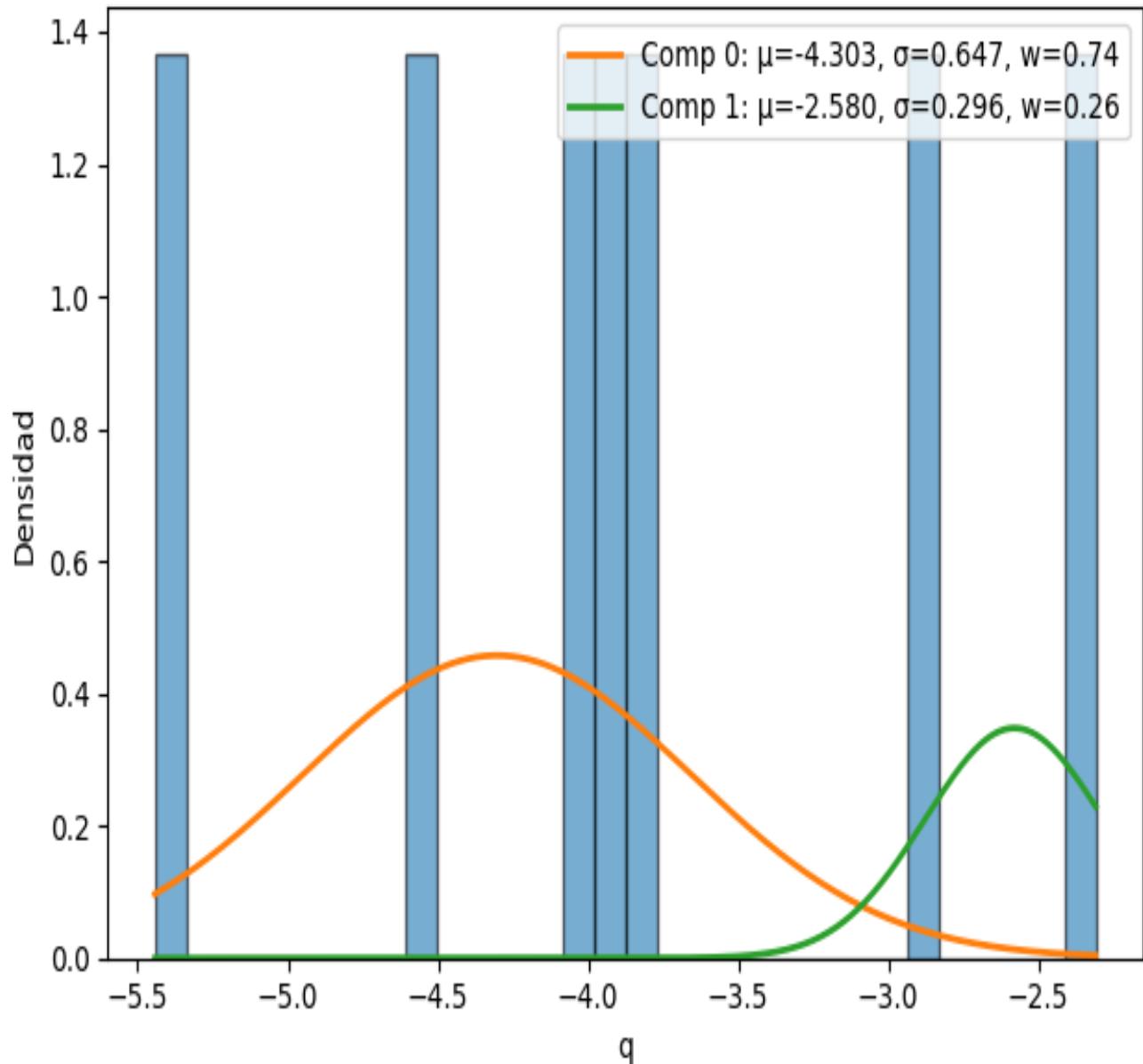
**U Means:** medias de la componente u estimada para la polarización interestelar.

**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 — Histograma de ISM con ajuste GMM Q

### Histograma de $q$ con ajuste GMM



## 6. Polarimetría — Histograma de ISM con ajuste GMM U

Histograma de  $u$  con ajuste GMM

