

# PS1 StackPetrosian table fields

The starting point for the PS1 data archive is at [Pan-STARRS1 data archive home page](#).

**Description: Contains the Petrosian (1976) magnitudes and radii for extended sources. See StackObjectThin table for discussion of primary, secondary, and best detections. References: Petrosian, V. 1976, ApJL, 209, L1.**

Name	Unit	Data Type	Size	Default Value	Description
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePspSTid	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
ippObjID	dimensionless	BIGINT	8	NA	IPP internal object identifier.
randomStackObjID	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
primaryDetection	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
bestDetection	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
gippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
gstackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
gstackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
gpetRadius	arcsec	REAL	4	-999	Petrosian (1976) fit radius for g filter stack detection.
gpetRadiusErr	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for g filter stack detection.
gpetMag	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from g filter stack detection.
gpetMagErr	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from g filter stack detection.
gpetR50	arcsec	REAL	4	-999	Petrosian (1976) fit radius for g filter stack detection. at 50% light
gpetR50Err	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for g filter stack detection. at 50% light
gpetR90	arcsec	REAL	4	-999	Petrosian (1976) fit radius for g filter stack detection. at 90% light
gpetR90Err	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for g filter stack detection. at 90% light
gpetCf	dimensionless	REAL	4	-999	Petrosian (1976) fit coverage factor for g filter stack detection.
rippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
rstackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
rstackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
rpetRadius	arcsec	REAL	4	-999	Petrosian (1976) fit radius for r filter stack detection.
rpetRadiusErr	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for r filter stack detection.
rpetMag	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from r filter stack detection.
rpetMagErr	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from r filter stack detection.
rpetR50	arcsec	REAL	4	-999	Petrosian (1976) fit radius for r filter stack detection. at 50% light
rpetR50Err	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for r filter stack detection. at 50% light
rpetR90	arcsec	REAL	4	-999	Petrosian (1976) fit radius for r filter stack detection. at 90% light
rpetR90Err	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for r filter stack detection. at 90% light
rpetCf	dimensionless	REAL	4	-999	Petrosian (1976) fit coverage factor for r filter stack detection.
iippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
istackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
istackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
ipetRadius	arcsec	REAL	4	-999	Petrosian (1976) fit radius for i filter stack detection.
ipetRadiusErr	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for i filter stack detection.
ipetMag	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from i filter stack detection.
ipetMagErr	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from i filter stack detection.
ipetR50	arcsec	REAL	4	-999	Petrosian (1976) fit radius for i filter stack detection. at 50% light

<b>ipetR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for i filter stack detection. at 50% light
<b>ipetR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for i filter stack detection. at 90% light
<b>ipetR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for i filter stack detection. at 90% light
<b>ipetCf</b>	dimensionless	REAL	4	-999	Petrosian (1976) fit coverage factor for i filter stack detection.
<b>zippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
<b>zpetRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for z filter stack detection.
<b>zpetRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for z filter stack detection.
<b>zpetMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from z filter stack detection.
<b>zpetMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from z filter stack detection.
<b>zpetR50</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for z filter stack detection. at 50% light
<b>zpetR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for z filter stack detection. at 50% light
<b>zpetR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for z filter stack detection. at 90% light
<b>zpetR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for z filter stack detection. at 90% light
<b>zpetCf</b>	dimensionless	REAL	4	-999	Petrosian (1976) fit coverage factor for z filter stack detection.
<b>yippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
<b>ypetRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for y filter stack detection.
<b>ypetRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for y filter stack detection.
<b>ypetMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from y filter stack detection.
<b>ypetMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from y filter stack detection.
<b>ypetR50</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for y filter stack detection. at 50% light
<b>ypetR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for y filter stack detection. at 50% light
<b>ypetR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for y filter stack detection. at 90% light
<b>ypetR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for y filter stack detection. at 90% light
<b>ypetCf</b>	dimensionless	REAL	4	-999	Petrosian (1976) fit coverage factor for y filter stack detection.