

# PS1 StackModelFitPetObjectView table fields

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

This page describes a "View", which is a database table created by joining other tables.

Description: -- ObjectThin join StackPetrosian joined by objID column.					
Name	Unit	Data Type	Size	Default Value	Description
objName	dimensionless	VARCHAR(32)	32	NA	IAU name for this object.
objAltName1	dimensionless	VARCHAR(32)	32	NA	Alternate name for this object.
objAltName2	dimensionless	VARCHAR(32)	32		Alternate name for this object.
objAltName3	dimensionless	VARCHAR(32)	32		Alternate name for this object.
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePSPsOBid	dimensionless	BIGINT	8	NA	Unique internal PSPS object identifier.
ippObjID	dimensionless	BIGINT	8	NA	IPP internal object identifier.
surveyID	dimensionless	TINYINT	1	NA	Survey identifier. Details in the Survey table.
htmlID	dimensionless	BIGINT	8	NA	Hierarchical triangular mesh (Szalay 2007) index.
zoneID	dimensionless	INT	4	NA	Local zone index, found by dividing the sky into bands of declination 1/2 arcminute in height: zoneID = floor((90 + declination)/0.0083333).
tessID	dimensionless	TINYINT	1	0	Tessellation identifier. Details in the TessellationType table.
projectionID	dimensionless	SMALLINT	2	-1	Projection cell identifier.
skyCellID	dimensionless	TINYINT	1	255	Skycell region identifier.
randomID	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
batchID	dimensionless	BIGINT	8	NA	Internal database batch identifier.
dvoRegionID	dimensionless	INT	4	-1	Internal DVO region identifier.
processingVersion	dimensionless	TINYINT	1	NA	Data release version.
objInfoFlag	dimensionless	INT	4	0	Information flag bitmask indicating details of the photometry. Values listed in ObjectInfoFlags.
qualityFlag	dimensionless	TINYINT	1	0	Subset of objInfoFlag denoting whether this object is real or a likely false positive. Values listed in ObjectQualityFlags.
raStack	degrees	FLOAT	8	-999	Right ascension from stack detections, weighted mean value across filters, in equinox J2000. See StackObjectThin for stack epoch information.
decStack	degrees	FLOAT	8	-999	Declination from stack detections, weighted mean value across filters, in equinox J2000. See StackObjectThin for stack epoch information.
raStackErr	arcsec	REAL	4	-999	Right ascension standard deviation from stack detections.
decStackErr	arcsec	REAL	4	-999	Declination standard deviation from stack detections.
raMean	degrees	FLOAT	8	-999	Right ascension from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean.
decMean	degrees	FLOAT	8	-999	Declination from single epoch detections (weighted mean) in equinox J2000 at the mean epoch given by epochMean.
raMeanErr	arcsec	REAL	4	-999	Right ascension standard deviation from single epoch detections.
decMeanErr	arcsec	REAL	4	-999	Declination standard deviation from single epoch detections.

<b>epochMean</b>	days	FLOAT	8	-999	Modified Julian Date of the mean epoch corresponding to raMean, decMean (equinox J2000).
<b>posMeanChi sq</b>	dimension less	REAL	4	-999	Reduced chi squared value of mean position.
<b>cx</b>	dimension less	FLOAT	8	NA	Cartesian x on a unit sphere.
<b>cy</b>	dimension less	FLOAT	8	NA	Cartesian y on a unit sphere.
<b>cz</b>	dimension less	FLOAT	8	NA	Cartesian z on a unit sphere.
<b>lambda</b>	degrees	FLOAT	8	-999	Ecliptic longitude.
<b>beta</b>	degrees	FLOAT	8	-999	Ecliptic latitude.
<b>l</b>	degrees	FLOAT	8	-999	Galactic longitude.
<b>b</b>	degrees	FLOAT	8	-999	Galactic latitude.
<b>nStackObject Rows</b>	dimension less	SMALLINT	2	-999	Number of independent StackObjectThin rows associated with this object.
<b>nStackDetections</b>	dimension less	SMALLINT	2	-999	Number of stack detections.
<b>nDetections</b>	dimension less	SMALLINT	2	-999	Number of single epoch detections in all filters.
<b>ng</b>	dimension less	SMALLINT	2	-999	Number of single epoch detections in g filter.
<b>nr</b>	dimension less	SMALLINT	2	-999	Number of single epoch detections in r filter.
<b>ni</b>	dimension less	SMALLINT	2	-999	Number of single epoch detections in i filter.
<b>nz</b>	dimension less	SMALLINT	2	-999	Number of single epoch detections in z filter.
<b>ny</b>	dimension less	SMALLINT	2	-999	Number of single epoch detections in y filter.
<b>primaryDetection</b>	dimension less	TINYINT	1	255	Identifies if this row is the primary stack detection.
<b>bestDetection</b>	dimension less	TINYINT	1	255	Identifies if this row is the best detection.
<b>gippDetectID</b>	dimension less	BIGINT	8	NA	IPP internal detection identifier.
<b>gstackDetectID</b>	dimension less	BIGINT	8	NA	Unique stack detection identifier.
<b>gstackImageID</b>	dimension less	BIGINT	8	NA	Unique stack identifier for g filter detection.
<b>gpetRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for g filter stack detection.
<b>gpetRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for g filter stack detection.
<b>gpetMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from g filter stack detection.
<b>gpetMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from g filter stack detection.
<b>gpetR50</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for g filter stack detection. at 50% light
<b>gpetR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for g filter stack detection. at 50% light
<b>gpetR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for g filter stack detection. at 90% light
<b>gpetR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for g filter stack detection. at 90% light
<b>gpetCf</b>	dimension less	REAL	4	-999	Petrosian (1976) fit coverage factor for g filter stack detection.
<b>rippDetectID</b>	dimension less	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectID</b>	dimension less	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimension less	BIGINT	8	NA	Unique stack identifier for r filter detection.

<b>rpetRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for r filter stack detection.
<b>rpetRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for r filter stack detection.
<b>rpetMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from r filter stack detection.
<b>rpetMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from r filter stack detection.
<b>rpetR50</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for r filter stack detection. at 50% light
<b>rpetR50Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for r filter stack detection. at 50% light
<b>rpetR90</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for r filter stack detection. at 90% light
<b>rpetR90Err</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for r filter stack detection. at 90% light
<b>rpetCf</b>	dimension less	REAL	4	-999	Petrosian (1976) fit coverage factor for r filter stack detection.
<b>iippDetectID</b>	dimension less	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimension less	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimension less	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>ipetRadius</b>	arcsec	REAL	4	-999	Petrosian (1976) fit radius for i filter stack detection.
<b>ipetRadiusErr</b>	arcsec	REAL	4	-999	Error in Petrosian (1976) fit radius for i filter stack detection.
<b>ipetMag</b>	AB magnitudes	REAL	4	-999	Petrosian (1976) magnitude from i filter stack detection.
<b>ipetMagErr</b>	AB magnitudes	REAL	4	-999	Error in Petrosian (1976) magnitude from i filter stack detection.
<b>ipetR50</b>	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>	dimension less	REAL	4	-999	Petrosian (1976) fit coverage factor for i filter stack detection.
<b>zippDetectID</b>	dimension less	BIGINT	8	NA	IPP internal detection identifier.
<b>zstackDetectID</b>	dimension less	BIGINT	8	NA	Unique stack detection identifier.
<b>zstackImageID</b>	dimension less	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>	dimension less	REAL	4	-999	Petrosian (1976) fit coverage factor for z filter stack detection.
<b>yippDetectID</b>	dimension less	BIGINT	8	NA	IPP internal detection identifier.
<b>ystackDetectID</b>	dimension less	BIGINT	8	NA	Unique stack detection identifier.
<b>ystackImageID</b>	dimension less	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.