

PS1 StackModelFitExpObjectView 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 StackModelFitExp 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.

epochMean	days	FLOAT	8	-999	Modified Julian Date of the mean epoch corresponding to raMean, decMean (equinox J2000).
posMeanChi sq	dimension less	REAL	4	-999	Reduced chi squared value of mean position.
cx	dimension less	FLOAT	8	NA	Cartesian x on a unit sphere.
cy	dimension less	FLOAT	8	NA	Cartesian y on a unit sphere.
cz	dimension less	FLOAT	8	NA	Cartesian z on a unit sphere.
lambda	degrees	FLOAT	8	-999	Ecliptic longitude.
beta	degrees	FLOAT	8	-999	Ecliptic latitude.
l	degrees	FLOAT	8	-999	Galactic longitude.
b	degrees	FLOAT	8	-999	Galactic latitude.
nStackObject Rows	dimension less	SMALLINT	2	-999	Number of independent StackObjectThin rows associated with this object.
nStackDetections	dimension less	SMALLINT	2	-999	Number of stack detections.
nDetections	dimension less	SMALLINT	2	-999	Number of single epoch detections in all filters.
ng	dimension less	SMALLINT	2	-999	Number of single epoch detections in g filter.
nr	dimension less	SMALLINT	2	-999	Number of single epoch detections in r filter.
ni	dimension less	SMALLINT	2	-999	Number of single epoch detections in i filter.
nz	dimension less	SMALLINT	2	-999	Number of single epoch detections in z filter.
ny	dimension less	SMALLINT	2	-999	Number of single epoch detections in y filter.
primaryDetection	dimension less	TINYINT	1	255	Identifies if this row is the primary stack detection.
bestDetection	dimension less	TINYINT	1	255	Identifies if this row is the best detection.
gippDetectID	dimension less	BIGINT	8	NA	IPP internal detection identifier.
gstackDetect ID	dimension less	BIGINT	8	NA	Unique stack detection identifier.
gstackImageID	dimension less	BIGINT	8	NA	Unique stack identifier for g filter detection.
gExpRadius	arcsec	REAL	4	-999	Exponential fit radius for g filter stack detection.
gExpRadius Err	arcsec	REAL	4	-999	Error in exponential fit radius for g filter stack detection.
gExpMag	AB magnitudes	REAL	4	-999	Exponential fit magnitude for g filter stack detection.
gExpMagErr	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for g filter stack detection.
gExpAb	dimension less	REAL	4	-999	Exponential fit axis ratio for g filter stack detection.
gExpAbErr	dimension less	REAL	4	-999	Error in exponential fit axis ratio for g filter stack detection.
gExpPhi	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for g filter stack detection.
gExpPhiErr	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for g filter stack detection.
gExpRa	degrees	FLOAT	8	-999	Right ascension of exponential fit center for g filter stack detection.
gExpDec	degrees	FLOAT	8	-999	Declination of exponential fit center for g filter stack detection.
gExpRaErr	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for g filter stack detection.
gExpDecErr	arcsec	REAL	4	-999	Error in declination of exponential fit center for g filter stack detection.

gExpChisq	dimension less	REAL	4	-999	Exponential fit reduced chi squared for g filter stack detection.
rippDetectID	dimension less	BIGINT	8	NA	IPP internal detection identifier.
rstackDetectID	dimension less	BIGINT	8	NA	Unique stack detection identifier.
rstackImageID	dimension less	BIGINT	8	NA	Unique stack identifier for r filter detection.
rExpRadius	arcsec	REAL	4	-999	Exponential fit radius for r filter stack detection.
rExpRadiusErr	arcsec	REAL	4	-999	Error in exponential fit radius for r filter stack detection.
rExpMag	AB magnitudes	REAL	4	-999	Exponential fit magnitude for r filter stack detection.
rExpMagErr	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for r filter stack detection.
rExpAb	dimension less	REAL	4	-999	Exponential fit axis ratio for r filter stack detection.
rExpAbErr	dimension less	REAL	4	-999	Error in exponential fit axis ratio for r filter stack detection.
rExpPhi	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for r filter stack detection.
rExpPhiErr	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for r filter stack detection.
rExpRa	degrees	FLOAT	8	-999	Right ascension of exponential fit center for r filter stack detection.
rExpDec	degrees	FLOAT	8	-999	Declination of exponential fit center for r filter stack detection.
rExpRaErr	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for r filter stack detection.
rExpDecErr	arcsec	REAL	4	-999	Error in declination of exponential fit center for r filter stack detection.
rExpChisq	dimension less	REAL	4	-999	Exponential fit reduced chi squared for r filter stack detection.
iippDetectID	dimension less	BIGINT	8	NA	IPP internal detection identifier.
istackDetectID	dimension less	BIGINT	8	NA	Unique stack detection identifier.
istackImageID	dimension less	BIGINT	8	NA	Unique stack identifier for i filter detection.
iExpRadius	arcsec	REAL	4	-999	Exponential fit radius for i filter stack detection.
iExpRadiusErr	arcsec	REAL	4	-999	Error in exponential fit radius for i filter stack detection.
iExpMag	AB magnitudes	REAL	4	-999	Exponential fit magnitude for i filter stack detection.
iExpMagErr	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for i filter stack detection.
iExpAb	dimension less	REAL	4	-999	Exponential fit axis ratio for i filter stack detection.
iExpAbErr	dimension less	REAL	4	-999	Error in exponential fit axis ratio for i filter stack detection.
iExpPhi	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for i filter stack detection.
iExpPhiErr	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for i filter stack detection.
iExpRa	degrees	FLOAT	8	-999	Right ascension of exponential fit center for i filter stack detection.
iExpDec	degrees	FLOAT	8	-999	Declination of exponential fit center for i filter stack detection.
iExpRaErr	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for i filter stack detection.
iExpDecErr	arcsec	REAL	4	-999	Error in declination of exponential fit center for i filter stack detection.
iExpChisq	dimension less	REAL	4	-999	Exponential fit reduced chi squared for i filter stack detection.
zippDetectID	dimension less	BIGINT	8	NA	IPP internal detection identifier.
zstackDetectID	dimension less	BIGINT	8	NA	Unique stack detection identifier.

zstackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for z filter detection.
zExpRadius	arcsec	REAL	4	-999	Exponential fit radius for z filter stack detection.
zExpRadiusErr	arcsec	REAL	4	-999	Error in exponential fit radius for z filter stack detection.
zExpMag	AB magnitudes	REAL	4	-999	Exponential fit magnitude for z filter stack detection.
zExpMagErr	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for z filter stack detection.
zExpAb	dimensionless	REAL	4	-999	Exponential fit axis ratio for z filter stack detection.
zExpAbErr	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for z filter stack detection.
zExpPhi	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for z filter stack detection.
zExpPhiErr	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for z filter stack detection.
zExpRa	degrees	FLOAT	8	-999	Right ascension of exponential fit center for z filter stack detection.
zExpDec	degrees	FLOAT	8	-999	Declination of exponential fit center for z filter stack detection.
zExpRaErr	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for z filter stack detection.
zExpDecErr	arcsec	REAL	4	-999	Error in declination of exponential fit center for z filter stack detection.
zExpChisq	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for z filter stack detection.
yippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
ystackDetectID	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
ystackImageID	dimensionless	BIGINT	8	NA	Unique stack identifier for y filter detection.
yExpRadius	arcsec	REAL	4	-999	Exponential fit radius for y filter stack detection.
yExpRadiusErr	arcsec	REAL	4	-999	Error in exponential fit radius for y filter stack detection.
yExpMag	AB magnitudes	REAL	4	-999	Exponential fit magnitude for y filter stack detection.
yExpMagErr	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for y filter stack detection.
yExpAb	dimensionless	REAL	4	-999	Exponential fit axis ratio for y filter stack detection.
yExpAbErr	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for y filter stack detection.
yExpPhi	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for y filter stack detection.
yExpPhiErr	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for y filter stack detection.
yExpRa	degrees	FLOAT	8	-999	Right ascension of exponential fit center for y filter stack detection.
yExpDec	degrees	FLOAT	8	-999	Declination of exponential fit center for y filter stack detection.
yExpRaErr	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for y filter stack detection.
yExpDecErr	arcsec	REAL	4	-999	Error in declination of exponential fit center for y filter stack detection.
yExpChisq	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for y filter stack detection.