

# PS1 StackModelFitExp table fields

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

**Description:** Contains the exponential fit parameters to extended sources. See [StackObjectThin](#) table for discussion of primary, secondary, and best detections.

Name	Unit	Data Type	Size	Default Value	Description
<b>objID</b>	dimensionless	BIGINT	8	NA	Unique object identifier.
<b>uniquePspSTid</b>	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
<b>ippObjID</b>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<b>randomStackObjID</b>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<b>primaryDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
<b>bestDetection</b>	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
<b>gippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>gstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>gstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
<b>gExpRadius</b>	arcsec	REAL	4	-999	Exponential fit radius for g filter stack detection.
<b>gExpRadiusErr</b>	arcsec	REAL	4	-999	Error in exponential fit radius for g filter stack detection.
<b>gExpMag</b>	AB magnitudes	REAL	4	-999	Exponential fit magnitude for g filter stack detection.
<b>gExpMagErr</b>	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for g filter stack detection.
<b>gExpAb</b>	dimensionless	REAL	4	-999	Exponential fit axis ratio for g filter stack detection.
<b>gExpAbErr</b>	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for g filter stack detection.
<b>gExpPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for g filter stack detection.
<b>gExpPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for g filter stack detection.
<b>gExpRa</b>	degrees	FLOAT	8	-999	Right ascension of exponential fit center for g filter stack detection.
<b>gExpDec</b>	degrees	FLOAT	8	-999	Declination of exponential fit center for g filter stack detection.
<b>gExpRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for g filter stack detection.
<b>gExpDecErr</b>	arcsec	REAL	4	-999	Error in declination of exponential fit center for g filter stack detection.
<b>gExpChisq</b>	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for g filter stack detection.
<b>rippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>rstackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>rstackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<b>rExpRadius</b>	arcsec	REAL	4	-999	Exponential fit radius for r filter stack detection.
<b>rExpRadiusErr</b>	arcsec	REAL	4	-999	Error in exponential fit radius for r filter stack detection.
<b>rExpMag</b>	AB magnitudes	REAL	4	-999	Exponential fit magnitude for r filter stack detection.
<b>rExpMagErr</b>	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for r filter stack detection.
<b>rExpAb</b>	dimensionless	REAL	4	-999	Exponential fit axis ratio for r filter stack detection.
<b>rExpAbErr</b>	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for r filter stack detection.
<b>rExpPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for r filter stack detection.
<b>rExpPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for r filter stack detection.
<b>rExpRa</b>	degrees	FLOAT	8	-999	Right ascension of exponential fit center for r filter stack detection.
<b>rExpDec</b>	degrees	FLOAT	8	-999	Declination of exponential fit center for r filter stack detection.
<b>rExpRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for r filter stack detection.
<b>rExpDecErr</b>	arcsec	REAL	4	-999	Error in declination of exponential fit center for r filter stack detection.
<b>rExpChisq</b>	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for r filter stack detection.

<b>iippDetectID</b>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<b>istackDetectID</b>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<b>istackImageID</b>	dimensionless	BIGINT	8	NA	Unique stack identifier for i filter detection.
<b>iExpRadius</b>	arcsec	REAL	4	-999	Exponential fit radius for i filter stack detection.
<b>iExpRadiusErr</b>	arcsec	REAL	4	-999	Error in exponential fit radius for i filter stack detection.
<b>iExpMag</b>	AB magnitudes	REAL	4	-999	Exponential fit magnitude for i filter stack detection.
<b>iExpMagErr</b>	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for i filter stack detection.
<b>iExpAb</b>	dimensionless	REAL	4	-999	Exponential fit axis ratio for i filter stack detection.
<b>iExpAbErr</b>	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for i filter stack detection.
<b>iExpPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for i filter stack detection.
<b>iExpPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for i filter stack detection.
<b>iExpRa</b>	degrees	FLOAT	8	-999	Right ascension of exponential fit center for i filter stack detection.
<b>iExpDec</b>	degrees	FLOAT	8	-999	Declination of exponential fit center for i filter stack detection.
<b>iExpRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for i filter stack detection.
<b>iExpDecErr</b>	arcsec	REAL	4	-999	Error in declination of exponential fit center for i filter stack detection.
<b>iExpChisq</b>	dimensionless	REAL	4	-999	Exponential fit reduced chi squared 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>zExpRadius</b>	arcsec	REAL	4	-999	Exponential fit radius for z filter stack detection.
<b>zExpRadiusErr</b>	arcsec	REAL	4	-999	Error in exponential fit radius for z filter stack detection.
<b>zExpMag</b>	AB magnitudes	REAL	4	-999	Exponential fit magnitude for z filter stack detection.
<b>zExpMagErr</b>	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for z filter stack detection.
<b>zExpAb</b>	dimensionless	REAL	4	-999	Exponential fit axis ratio for z filter stack detection.
<b>zExpAbErr</b>	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for z filter stack detection.
<b>zExpPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for z filter stack detection.
<b>zExpPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for z filter stack detection.
<b>zExpRa</b>	degrees	FLOAT	8	-999	Right ascension of exponential fit center for z filter stack detection.
<b>zExpDec</b>	degrees	FLOAT	8	-999	Declination of exponential fit center for z filter stack detection.
<b>zExpRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for z filter stack detection.
<b>zExpDecErr</b>	arcsec	REAL	4	-999	Error in declination of exponential fit center for z filter stack detection.
<b>zExpChisq</b>	dimensionless	REAL	4	-999	Exponential fit reduced chi squared 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>yExpRadius</b>	arcsec	REAL	4	-999	Exponential fit radius for y filter stack detection.
<b>yExpRadiusErr</b>	arcsec	REAL	4	-999	Error in exponential fit radius for y filter stack detection.
<b>yExpMag</b>	AB magnitudes	REAL	4	-999	Exponential fit magnitude for y filter stack detection.
<b>yExpMagErr</b>	AB magnitudes	REAL	4	-999	Error in exponential fit magnitude for y filter stack detection.
<b>yExpAb</b>	dimensionless	REAL	4	-999	Exponential fit axis ratio for y filter stack detection.
<b>yExpAbErr</b>	dimensionless	REAL	4	-999	Error in exponential fit axis ratio for y filter stack detection.
<b>yExpPhi</b>	degrees	REAL	4	-999	Major axis position angle, phi, of exponential fit for y filter stack detection.
<b>yExpPhiErr</b>	degrees	REAL	4	-999	Error in major axis position angle of exponential fit for y filter stack detection.
<b>yExpRa</b>	degrees	FLOAT	8	-999	Right ascension of exponential fit center for y filter stack detection.
<b>yExpDec</b>	degrees	FLOAT	8	-999	Declination of exponential fit center for y filter stack detection.
<b>yExpRaErr</b>	arcsec	REAL	4	-999	Error in right ascension of exponential fit center for y filter stack detection.

<b>yExpDecErr</b>	arcsec	REAL	4	-999	Error in declination of exponential fit center for y filter stack detection.
<b>yExpChisq</b>	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for y filter stack detection.