

# 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
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.
gExpRadius	arcsec	REAL	4	-999	Exponential fit radius for g filter stack detection.
gExpRadiusErr	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	dimensionless	REAL	4	-999	Exponential fit axis ratio for g filter stack detection.
gExpAbErr	dimensionless	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	dimensionless	REAL	4	-999	Exponential fit reduced chi squared 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.
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	dimensionless	REAL	4	-999	Exponential fit axis ratio for r filter stack detection.
rExpAbErr	dimensionless	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	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.