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.
uniquePspsSTid	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.

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.
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	dimensionless	REAL	4	-999	Exponential fit axis ratio for i filter stack detection.
iExpAbErr	dimensionless	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	dimensionless	REAL	4	-999	Exponential fit reduced chi squared for i filter stack detection.
zippDetectID	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
zstackDetectID	dimensionless	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.