

PS1 StackModelFitExtra table fields

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

Description: Contains the galaxy shape and concentration parameters measured from the stack detections. See StackObjectThin table for discussion of primary, secondary, and best detections. References: Blakeslee, J. P., Holden, B. P., Franx, M., et al. 2006, ApJ, 644, 30; Cheng, J. Y., Faber, S. M., Schade, D., Lilly, S. J., Crampton, D., et al. 1995, ApJL, 451, L1; Simard, L., et al. 2011, MNRAS, 412, 727; Simard, L., Willmer, C. N. A., Vogt, N. P., et al. 2003, ApJS, 142, 1.

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.
gS2	dimensionless	REAL	4	-999	Smoothness parameter s2 from g filter stack detection (Cheng 2011; Simard 2003).
glogRT	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from g filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
glogRA	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from g filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
gbumpy	dimensionless	REAL	4	-999	Bumpiness parameter from g filter stack detection (Blakeslee 2006).
ghalfLightRad	arcsec	REAL	4	-999	Half-light radius from 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.
rS2	dimensionless	REAL	4	-999	Smoothness parameter s2 from r filter stack detection (Cheng 2011; Simard 2003).
rlogRT	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from r filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
rlogRA	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from r filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
rbumpy	dimensionless	REAL	4	-999	Bumpiness parameter from r filter stack detection (Blakeslee 2006).
rhalfLightRad	arcsec	REAL	4	-999	Half-light radius from 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.

iS2	dimensionless	REAL	4	-999	Smoothness parameter s2 from i filter stack detection (Cheng 2011; Simard 2003).
ilogRT	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from i filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
ilogRA	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from i filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
ibumpy	dimensionless	REAL	4	-999	Bumpiness parameter from i filter stack detection (Blakeslee 2006).
ihalfLightRad	arcsec	REAL	4	-999	Half-light radius from 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.
zS2	dimensionless	REAL	4	-999	Smoothness parameter s2 from z filter stack detection (Cheng 2011; Simard 2003).
zlogRT	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from z filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
zlogRA	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from z filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
zbumpy	dimensionless	REAL	4	-999	Bumpiness parameter from z filter stack detection (Blakeslee 2006).
zhalfLightRad	arcsec	REAL	4	-999	Half-light radius from 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.
yS2	dimensionless	REAL	4	-999	Smoothness parameter s2 from y filter stack detection (Cheng 2011; Simard 2003).
ylogRT	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from y filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
ylogRA	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from y filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
ybumpy	dimensionless	REAL	4	-999	Bumpiness parameter from y filter stack detection (Blakeslee 2006).
yhalfLightRad	arcsec	REAL	4	-999	Half-light radius from y filter stack detection.