

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
<code>objID</code>	dimensionless	BIGINT	8	NA	Unique object identifier.
<code>uniquePspSSTid</code>	dimensionless	BIGINT	8	NA	Unique internal PSPS stack identifier.
<code>ippObjID</code>	dimensionless	BIGINT	8	NA	IPP internal object identifier.
<code>randomStackObjID</code>	dimensionless	FLOAT	8	NA	Random value drawn from the interval between zero and one.
<code>primaryDetection</code>	dimensionless	TINYINT	1	255	Identifies if this row is the primary stack detection.
<code>bestDetection</code>	dimensionless	TINYINT	1	255	Identifies if this row is the best detection.
<code>gippDetectID</code>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<code>gstackDetectID</code>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<code>gstackImageID</code>	dimensionless	BIGINT	8	NA	Unique stack identifier for g filter detection.
<code>gS2</code>	dimensionless	REAL	4	-999	Smoothness parameter s2 from g filter stack detection (Cheng 2011; Simard 2003).
<code>glogRT</code>	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from g filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<code>glogRA</code>	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from g filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<code>gbumpy</code>	dimensionless	REAL	4	-999	Bumpiness parameter from g filter stack detection (Blakeslee 2006).
<code>ghalfLightRad</code>	arcsec	REAL	4	-999	Half-light radius from g filter stack detection.
<code>rppDetectID</code>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<code>rstackDetectID</code>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<code>rstackImageID</code>	dimensionless	BIGINT	8	NA	Unique stack identifier for r filter detection.
<code>rS2</code>	dimensionless	REAL	4	-999	Smoothness parameter s2 from r filter stack detection (Cheng 2011; Simard 2003).
<code>rlogRT</code>	dimensionless	REAL	4	-999	Total residual from elliptically symmetric model from r filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<code>rlogRA</code>	dimensionless	REAL	4	-999	Asymmetric residual from elliptically symmetric model from r filter stack detection (Cheng 2011; Simard 2003; Schade 1995).
<code>rbumpy</code>	dimensionless	REAL	4	-999	Bumpiness parameter from r filter stack detection (Blakeslee 2006).
<code>rhalfLightRad</code>	arcsec	REAL	4	-999	Half-light radius from r filter stack detection.
<code>iippDetectID</code>	dimensionless	BIGINT	8	NA	IPP internal detection identifier.
<code>istackDetectID</code>	dimensionless	BIGINT	8	NA	Unique stack detection identifier.
<code>istackImageID</code>	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.