

Planetary Systems (PS)

Database	Column Name	Table Label or Comment
Column1	Column2	
pl_name	Planet Name	
hostname	Host Name	
pl_letter	Planet Letter	
hd_name	HD ID	
hip_name	HIP ID	
tic_id	TIC ID	
gaia_dr2_id	Gaia DR2 ID	
gaia_dr3_id	Gaia DR3 ID	
default_flag	Default Parameter Set	
sy_snum	Number of Stars	
sy_pnum	Number of Planets	
sy_mnum	Number of Moons	
cb_flag	Circumbinary Flag	
discoverymethod	Discovery Method	
disc_year	Discovery Year	
disc_refname	Discovery Reference	
disc_pubdate	Discovery Publication Date	
disc_locale	Discovery Locale	
disc_facility	Discovery Facility	
disc_telescope	Discovery Telescope	
disc_instrument	Discovery Instrument	
rv_flag	Detected by Radial Velocity Variations	
pul_flag	Detected by Pulsar Timing Variations	
ptv_flag	Detected by Pulsation Timing Variations	
tran_flag	Detected by Transits	
ast_flag	Detected by Astrometric Variations	
obm_flag	Detected by Orbital Brightness Modulations	
micro_flag	Detected by Microlensing	
etv_flag	Detected by Eclipse Timing Variations	

Confirmed Planets (retiring)

Database	Column Name	Table Label or Comment
Column3	Column4	
pl_name	Planet Name	
pl_hostname	Host Name	
pl_letter	Planet Letter	
hd_name	HD ID	
hip_name	HIP ID	
N/A		BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
N/A		BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
N/A		BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
N/A		PLANETARY SYSTEMS ONLY
N/A		BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pl_pnum	Number of Planets	
pl_mnum	Number of Moons	
pl_cbflag	Circumbinary Flag	
pl_discmethod	Discovery Method	
pl_disc	Discovery Year	
pl_disc_reflink	Discovery Reference	
N/A		BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pl_locale	Discovery Locale	
pl_facility	Discovery Facility	
pl_telescope	Discovery Telescope	
pl_instrument	Discovery Instrument	
pl_rvflag	Detected by Radial Velocity Variations	
N/A		BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
N/A		BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pl_tranflag	Detected by Transits	
pl_astflag	Detected by Astrometric Variations	
pl_omflag	Detected by Orbital Brightness Modulations	
N/A		BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
N/A		BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES

ima_flag	Detected by Imaging	pl_imgflag	Detected by Imaging
dkin_flag	Detected by Disk Kinematics	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
soltype	Solution Type	N/A	PLANETARY SYSTEMS ONLY
pl_controv_flag	Controversial Flag	pl_controvflag	Controversial Flag
pl_refname	Planetary Parameter Reference	N/A	PLANETARY SYSTEMS ONLY
pl_orbper	Orbital Period [days]	pl_orbper	Orbital Period [days]
pl_orbpererr1	Orbital Period Upper Unc. [days]	pl_orbpererr1	Orbital Period Upper Unc. [days]
pl_orbpererr2	Orbital Period Lower Unc. [days]	pl_orbpererr2	Orbital Period Lower Unc. [days]
pl_orbperlim	Orbital Period Limit Flag	pl_orbperlim	Orbital Period Limit Flag
pl_orbsmax	Orbit Semi-Major Axis [au]	pl_orbsmax	Orbit Semi-Major Axis [au]
pl_orbsmaxerr1	Orbit Semi-Major Axis Upper Unc. [au]	pl_orbsmaxerr1	Orbit Semi-Major Axis Upper Unc. [au]
pl_orbsmaxerr2	Orbit Semi-Major Axis Lower Unc. [au]	pl_orbsmaxerr2	Orbit Semi-Major Axis Lower Unc. [au]
pl_orbsmaxlim	Orbit Semi-Major Axis Limit Flag	pl_orbsmaxlim	Orbit Semi-Major Axis Limit Flag
pl_rade	Planet Radius [Earth Radius]	pl_rade	Planet Radius [Earth Radius]
pl_radeerr1	Planet Radius Upper Unc. [Earth Radius]	pl_radeerr1	Planet Radius Upper Unc. [Earth Radius]
pl_radeerr2	Planet Radius Lower Unc. [Earth Radius]	pl_radeerr2	Planet Radius Lower Unc. [Earth Radius]
pl_radelim	Planet Radius Limit Flag	pl_radelim	Planet Radius Limit Flag
pl_radj	Planet Radius [Jupiter Radius]	pl_radj	Planet Radius [Jupiter Radius]
pl_radjerr1	Planet Radius Upper Unc. [Jupiter Radius]	pl_radjerr1	Planet Radius Upper Unc. [Jupiter Radius]
pl_radjerr2	Planet Radius Lower Unc. [Jupiter Radius]	pl_radjerr2	Planet Radius Lower Unc. [Jupiter Radius]
pl_radjlim	Planet Radius Limit Flag	pl_radjlim	Planet Radius Limit Flag
pl_masse	Planet Mass [Earth Mass]	pl_masse	Planet Mass [Earth Mass]
pl_masseerr1	Planet Mass [Earth Mass] Upper Unc.	pl_masseerr1	Planet Mass [Earth Mass] Upper Unc.
pl_masseerr2	Planet Mass [Earth Mass] Lower Unc.	pl_masseerr2	Planet Mass [Earth Mass] Lower Unc.
pl_masselim	Planet Mass [Earth Mass] Limit Flag	pl_masselim	Planet Mass [Earth Mass] Limit Flag
pl_massj	Planet Mass [Jupiter Mass]	pl_massj	Planet Mass [Jupiter Mass]
pl_massjerr1	Planet Mass [Jupiter Mass] Upper Unc.	pl_massjerr1	Planet Mass [Jupiter Mass] Upper Unc.
pl_massjerr2	Planet Mass [Jupiter Mass] Lower Unc.	pl_massjerr2	Planet Mass [Jupiter Mass] Lower Unc.
pl_massjlim	Planet Mass [Jupiter Mass] Limit Flag	pl_massjlim	Planet Mass [Jupiter Mass] Limit Flag
pl_msinie	Planet Mass*sin(i) [Earth Mass]	pl_msinie	Planet Mass*sin(i) [Earth Mass]
pl_msinieerr1	Planet Mass*sin(i) [Earth Mass] Upper Unc.	pl_msinieerr1	Planet Mass*sin(i) [Earth Mass] Upper Unc.
pl_msinieerr2	Planet Mass*sin(i) [Earth Mass] Lower Unc.	pl_msinieerr2	Planet Mass*sin(i) [Earth Mass] Lower Unc.
pl_msinielim	Planet Mass*sin(i) [Earth Mass] Limit Flag	pl_msinielim	Planet Mass*sin(i) [Earth Mass] Limit Flag

pL_msini	Planet Mass* $\sin(i)$ [Jupiter Mass]	pL_msini	Planet Mass* $\sin(i)$ [Jupiter Mass]
pL_msinierr1	Planet Mass* $\sin(i)$ [Jupiter Mass] Upper Unc.	pL_msinierr1	Planet Mass* $\sin(i)$ [Jupiter Mass] Upper Unc.
pL_msinierr2	Planet Mass* $\sin(i)$ [Jupiter Mass] Lower Unc.	pL_msinierr2	Planet Mass* $\sin(i)$ [Jupiter Mass] Lower Unc.
pL_msinylim	Planet Mass* $\sin(i)$ [Jupiter Mass] Limit Flag	pL_msinylim	Planet Mass* $\sin(i)$ [Jupiter Mass] Limit Flag
pL_cmasse	Planet Mass* $\sin(i)/\sin(i)$ [Earth Mass]	N/A	PLANETARY SYSTEMS ONLY
pL_cmasseerr1	Planet Mass* $\sin(i)/\sin(i)$ [Earth Mass] Upper Unc.	N/A	PLANETARY SYSTEMS ONLY
pL_cmasseerr2	Planet Mass* $\sin(i)/\sin(i)$ [Earth Mass] Lower Unc.	N/A	PLANETARY SYSTEMS ONLY
pL_cmasselim	Planet Mass* $\sin(i)/\sin(i)$ [Earth Mass] Limit Flag	N/A	PLANETARY SYSTEMS ONLY
pL_cmassj	Planet Mass* $\sin(i)/\sin(i)$ [Jupiter Mass]	N/A	PLANETARY SYSTEMS ONLY
pL_cmassjerr1	Planet Mass* $\sin(i)/\sin(i)$ [Jupiter Mass] Upper Unc.	N/A	PLANETARY SYSTEMS ONLY
pL_cmassjerr2	Planet Mass* $\sin(i)/\sin(i)$ [Jupiter Mass] Lower Unc.	N/A	PLANETARY SYSTEMS ONLY
pL_cmassjlim	Planet Mass* $\sin(i)/\sin(i)$ [Jupiter Mass] Limit Flag	N/A	PLANETARY SYSTEMS ONLY
pL_bmasse	Planet Mass or Mass* $\sin(i)$ [Earth Mass]	pL_bmasse	Planet Mass or Mass* $\sin(i)$ [Earth Mass]
pL_bmasseerr1	Planet Mass or Mass* $\sin(i)$ [Earth Mass] Upper Unc.	pL_bmasseerr1	Planet Mass or Mass* $\sin(i)$ [Earth Mass] Upper Unc.
pL_bmasseerr2	Planet Mass or Mass* $\sin(i)$ [Earth Mass] Lower Unc.	pL_bmasseerr2	Planet Mass or Mass* $\sin(i)$ [Earth Mass] Lower Unc.
pL_bmasselim	Planet Mass or Mass* $\sin(i)$ [Earth Mass] Limit Flag	pL_bmasselim	Planet Mass or Mass* $\sin(i)$ [Earth Mass] Limit Flag
pL_bmassj	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass]	pL_bmassj	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass]
pL_bmassjerr1	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass] Upper Unc.	pL_bmassjerr1	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass] Upper Unc.
pL_bmassjerr2	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass] Lower Unc.	pL_bmassjerr2	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass] Lower Unc.
pL_bmassjlim	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass] Limit Flag	pL_bmassjlim	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass] Limit Flag
pL_bmassprov	Planet Mass or Mass* $\sin(i)$ Provenance	pL_bmassprov	Planet Mass or Mass* $\sin(i)$ Provenance
pL_dens	Planet Density [g/cm ³]	pL_dens	Planet Density [g/cm ³]
pL_denserr1	Planet Density Upper Unc. [g/cm ³]	pL_denserr1	Planet Density Upper Unc. [g/cm ³]
pL_denserr2	Planet Density Lower Unc. [g/cm ³]	pL_denserr2	Planet Density Lower Unc. [g/cm ³]
pL_denslim	Planet Density Limit Flag	pL_denslim	Planet Density Limit Flag
pL_orbeccen	Eccentricity	pL_orbeccen	Eccentricity
pL_orbeccenerr1	Eccentricity Upper Unc.	pL_orbeccenerr1	Eccentricity Upper Unc.
pL_orbeccenerr2	Eccentricity Lower Unc.	pL_orbeccenerr2	Eccentricity Lower Unc.
pL_orbeccenlim	Eccentricity Limit Flag	pL_orbeccenlim	Eccentricity Limit Flag
pL_insol	Insolation Flux [Earth Flux]	pL_insol	Insolation Flux [Earth Flux]
pL_insolerr1	Insolation Flux Upper Unc. [Earth Flux]	pL_insolerr1	Insolation Flux Upper Unc. [Earth Flux]
pL_insolerr2	Insolation Flux Lower Unc. [Earth Flux]	pL_insolerr2	Insolation Flux Lower Unc. [Earth Flux]
pL_insollim	Insolation Flux Limit Flag	pL_insollim	Insolation Flux Limit Flag

pL_eqt	Equilibrium Temperature [K]
pL_eqterr1	Equilibrium Temperature Upper Unc. [K]
pL_eqterr2	Equilibrium Temperature Lower Unc. [K]
pL_eqtlim	Equilibrium Temperature Limit Flag
pL_orbincl	Inclination [deg]
pL_orbinclerr1	Inclination Upper Unc. [deg]
pL_orbinclerr2	Inclination Lower Unc. [deg]
pL_orbincllim	Inclination Limit Flag
pL_tranmid	Transit Midpoint [days]
pL_tranmiderr1	Transit Midpoint Upper Unc. [days]
pL_tranmiderr2	Transit Midpoint Lower Unc. [days]
pL_tranmidlim	Transit Midpoint Limit Flag
pL_tsystemref	Time Reference Frame and Standard
ttv_flag	Data show Transit Timing Variations
pL_imppar	Impact Parameter
pL_impparerr1	Impact Parameter Upper Unc.
pL_impparerr2	Impact Parameter Lower Unc.
pL_impparlim	Impact Parameter Limit Flag
pL_trandep	Transit Depth [%]
pL_trandeperr1	Transit Depth Upper Unc. [%]
pL_trandeperr2	Transit Depth Lower Unc. [%]
pL_trandeplim	Transit Depth Limit Flag
pL_trandur	Transit Duration [hours]
pL_trandurerr1	Transit Duration Upper Unc. [hours]
pL_trandurerr2	Transit Duration Lower Unc. [hours]
pL_trandurlim	Transit Duration Limit Flag
pL_ratdor	Ratio of Semi-Major Axis to Stellar Radius
pL_ratdorerr1	Ratio of Semi-Major Axis to Stellar Radius Upper Unc.
pL_ratdorerr2	Ratio of Semi-Major Axis to Stellar Radius Lower Unc.
pL_ratdorlim	Ratio of Semi-Major Axis to Stellar Radius Limit Flag
pL_rator	Ratio of Planet to Stellar Radius
pL_ratorerr1	Ratio of Planet to Stellar Radius Upper Unc.
pL_ratorerr2	Ratio of Planet to Stellar Radius Lower Unc.

pL_eqt	Equilibrium Temperature [K]
pL_eqterr1	Equilibrium Temperature Upper Unc. [K]
pL_eqterr2	Equilibrium Temperature Lower Unc. [K]
pL_eqtlim	Equilibrium Temperature Limit Flag
pL_orbincl	Inclination [deg]
pL_orbinclerr1	Inclination Upper Unc. [deg]
pL_orbinclerr2	Inclination Lower Unc. [deg]
pL_orbincllim	Inclination Limit Flag
pL_tranmid	Transit Midpoint [days]
pL_tranmiderr1	Transit Midpoint Upper Unc. [days]
pL_tranmiderr2	Transit Midpoint Lower Unc. [days]
pL_tranmidlim	Transit Midpoint Limit Flag
pL_tsystemref	Transit Midpoint Time Reference Frame and Standard
pL_ttvflag	Data show Transit Timing Variations
pL_imppar	Impact Parameter
pL_impparerr1	Impact Parameter Upper Unc.
pL_impparerr2	Impact Parameter Lower Unc.
pL_impparlim	Impact Parameter Limit Flag
pL_trandep	Transit Depth [%]
pL_trandeperr1	Transit Depth Upper Unc. [%]
pL_trandeperr2	Transit Depth Lower Unc. [%]
pL_trandeplim	Transit Depth Limit Flag
pL_trandur	Transit Duration [days]
pL_trandurerr1	Transit Duration Upper Unc. [days]
pL_trandurerr2	Transit Duration Lower Unc. [days]
pL_trandurlim	Transit Duration Limit Flag
pL_ratdor	Ratio of Semi-Major Axis to Stellar Radius
pL_ratdorerr1	Ratio of Semi-Major Axis to Stellar Radius Upper Unc.
pL_ratdorerr2	Ratio of Semi-Major Axis to Stellar Radius Lower Unc.
pL_ratdorlim	Ratio of Semi-Major Axis to Stellar Radius Limit Flag
pL_rator	Ratio of Planet to Stellar Radius
pL_ratorerr1	Ratio of Planet to Stellar Radius Upper Unc.
pL_ratorerr2	Ratio of Planet to Stellar Radius Lower Unc.

pL_ratorlim	Ratio of Planet to Stellar Radius Limit Flag	pL_ratorlim	Ratio of Planet to Stellar Radius Limit Flag
pL_occdep	Occultation Depth [%]	pL_occdep	Occultation Depth [%]
pL_occdeperr1	Occultation Depth Upper Unc. [%]	pL_occdeperr1	Occultation Depth Upper Unc. [%]
pL_occdeperr2	Occultation Depth Lower Unc. [%]	pL_occdeperr2	Occultation Depth Lower Unc. [%]
pL_occdeplim	Occultation Depth Limit Flag	pL_occdeplim	Occultation Depth Limit Flag
pL_orbtper	Epoch of Periastron [days]	pL_orbtper	Epoch of Periastron [days]
pL_orbtpererr1	Epoch of Periastron Upper Unc. [days]	pL_orbtpererr1	Epoch of Periastron Upper Unc. [days]
pL_orbtpererr2	Epoch of Periastron Lower Unc. [days]	pL_orbtpererr2	Epoch of Periastron Lower Unc. [days]
pL_orbtperlim	Epoch of Periastron Limit Flag	pL_orbtperlim	Epoch of Periastron Limit Flag
pL_orbtper_systemref	Epoch of Periastron Time System Frame and Standard	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pL_orblper	Argument of Periastron [deg]	pL_orblper	Argument of Periastron [deg]
pL_orblpererr1	Argument of Periastron Upper Unc. [deg]	pL_orblpererr1	Argument of Periastron Upper Unc. [deg]
pL_orblpererr2	Argument of Periastron Lower Unc. [deg]	pL_orblpererr2	Argument of Periastron Lower Unc. [deg]
pL_orblperlim	Argument of Periastron Limit Flag	pL_orblperlim	Argument of Periastron Limit Flag
pL_rvamp	Radial Velocity Amplitude [m/s]	pL_rvamp	Radial Velocity Amplitude [m/s]
pL_rvamperr1	Radial Velocity Amplitude Upper Unc. [m/s]	pL_rvamperr1	Radial Velocity Amplitude Upper Unc. [m/s]
pL_rvamperr2	Radial Velocity Amplitude Lower Unc. [m/s]	pL_rvamperr2	Radial Velocity Amplitude Lower Unc. [m/s]
pL_rvamplim	Radial Velocity Amplitude Limit Flag	pL_rvamplim	Radial Velocity Amplitude Limit Flag
pL_projobliq	Projected Obliquity [deg]	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pL_projobliqerr1	Projected Obliquity Upper Unc. [deg]	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pL_projobliqerr2	Projected Obliquity Lower Unc. [deg]	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pL_projobliqlim	Projected Obliquity Limit Flag	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pL_trueobliq	True Obliquity [deg]	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pL_trueobliqerr1	True Obliquity Upper Unc. [deg]	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pL_trueobliqerr2	True Obliquity Lower Unc. [deg]	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
pL_trueobliqlim	True Obliquity Limit Flag	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
st_refname	Stellar Parameter Reference	N/A	PLANETARY SYSTEMS ONLY
st_spectype	Spectral Type	st_spstr	Spectral Type
st_teff	Stellar Effective Temperature [K]	st_teff	Stellar Effective Temperature [K]
st_tefferr1	Stellar Effective Temperature Upper Unc. [K]	st_tefferr1	Stellar Effective Temperature Upper Unc. [K]
st_tefferr2	Stellar Effective Temperature Lower Unc. [K]	st_tefferr2	Stellar Effective Temperature Lower Unc. [K]
st_tefflim	Stellar Effective Temperature Limit Flag	st_tefflim	Stellar Effective Temperature Limit Flag
st_rad	Stellar Radius [Solar Radius]	st_rad	Stellar Radius [Solar Radius]

st_raderr1	Stellar Radius Upper Unc. [Solar Radius]	st_raderr1	Stellar Radius Upper Unc. [Solar Radius]
st_raderr2	Stellar Radius Lower Unc. [Solar Radius]	st_raderr2	Stellar Radius Lower Unc. [Solar Radius]
st_radlim	Stellar Radius Limit Flag	st_radlim	Stellar Radius Limit Flag
st_mass	Stellar Mass [Solar mass]	st_mass	Stellar Mass [Solar mass]
st_masserr1	Stellar Mass Upper Unc. [Solar mass]	st_masserr1	Stellar Mass Upper Unc. [Solar mass]
st_masserr2	Stellar Mass Lower Unc. [Solar mass]	st_masserr2	Stellar Mass Lower Unc. [Solar mass]
st_masslim	Stellar Mass Limit Flag	st_masslim	Stellar Mass Limit Flag
st_met	Stellar Metallicity [dex]	st_metfe	Stellar Metallicity [dex]
st_meterr1	Stellar Metallicity Upper Unc. [dex]	st_metfeerr1	Stellar Metallicity Upper Unc. [dex]
st_meterr2	Stellar Metallicity Lower Unc. [dex]	st_metfeerr2	Stellar Metallicity Lower Unc. [dex]
st_metlim	Stellar Metallicity Limit Flag	st_metfelim	Stellar Metallicity Limit Flag
st_metratio	Stellar Metallicity Ratio	st_metratio	Stellar Metallicity Ratio
st_lum	Stellar Luminosity [log(Solar)]	st_lum	Stellar Luminosity [log(Solar)]
st_lumerr1	Stellar Luminosity Upper Unc. [log(Solar)]	st_lumerr1	Stellar Luminosity Upper Unc. [log(Solar)]
st_lumerr2	Stellar Luminosity Lower Unc. [log(Solar)]	st_lumerr2	Stellar Luminosity Lower Unc. [log(Solar)]
st_lumlim	Stellar Luminosity Limit Flag	st_lumlim	Stellar Luminosity Limit Flag
st_logg	Stellar Surface Gravity [log10(cm/s**2)]	st_logg	Stellar Surface Gravity [log10(cm/s**2)]
st_loggerr1	Stellar Surface Gravity Upper Unc. [log10(cm/s**2)]	st_loggerr1	Stellar Surface Gravity Upper Unc. [log10(cm/s**2)]
st_loggerr2	Stellar Surface Gravity Lower Unc. [log10(cm/s**2)]	st_loggerr2	Stellar Surface Gravity Lower Unc. [log10(cm/s**2)]
st_logglim	Stellar Surface Gravity Limit Flag	st_logglim	Stellar Surface Gravity Limit Flag
st_age	Stellar Age [Gyr]	st_age	Stellar Age [Gyr]
st_ageerr1	Stellar Age Upper Unc. [Gyr]	st_ageerr1	Stellar Age Upper Unc. [Gyr]
st_ageerr2	Stellar Age Lower Unc. [Gyr]	st_ageerr2	Stellar Age Lower Unc. [Gyr]
st_agelim	Stellar Age Limit Flag	st_agelim	Stellar Age Limit Flag
st_dens	Stellar Density [g/cm**3]	st_dens	Stellar Density [g/cm**3]
st_denserr1	Stellar Density Upper Unc. [g/cm**3]	st_denserr1	Stellar Density Upper Unc. [g/cm**3]
st_denserr2	Stellar Density Lower Unc. [g/cm**3]	st_denserr2	Stellar Density Lower Unc. [g/cm**3]
st_denslim	Stellar Density Limit Flag	st_denslim	Stellar Density Limit Flag
st_vsin	Stellar Rotational Velocity [km/s]	st_vsin	Stellar Rotational Velocity [km/s]
st_vsinerr1	Stellar Rotational Velocity [km/s] Upper Unc.	st_vsinerr1	Stellar Rotational Velocity [km/s] Upper Unc.
st_vsinerr2	Stellar Rotational Velocity [km/s] Lower Unc.	st_vsinerr2	Stellar Rotational Velocity [km/s] Lower Unc.
st_vsinlim	Stellar Rotational Velocity Limit Flag	st_vsinlim	Stellar Rotational Velocity Limit Flag
st_rotp	Stellar Rotational Period [days]	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES

st_rotper1	Stellar Rotational Period [days] Upper Unc.	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
st_rotper2	Stellar Rotational Period [days] Lower Unc.	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
st_rotplim	Stellar Rotational Period Limit Flag	N/A	BOTH PLANETARY SYSTEMS AND PS_COMPOSITE TABLES
st_radv	Systemic Radial Velocity [km/s]	st_radv	Systemic Radial Velocity [km/s]
st_radverr1	Systemic Radial Velocity Upper Unc. [km/s]	st_radverr1	Systemic Radial Velocity Upper Unc. [km/s]
st_radverr2	Systemic Radial Velocity Lower Unc. [km/s]	st_radverr2	Systemic Radial Velocity Lower Unc. [km/s]
st_radvlim	Systemic Radial Velocity Limit Flag	st_radvlim	Systemic Radial Velocity Limit Flag
sy_refname	System Parameter Reference	N/A	PLANETARY SYSTEMS ONLY
rastr	RA [sexagesimal]	ra_str	RA [sexagesimal]
ra	RA [decimal]	ra	RA [decimal]
decstr	Dec [sexagesimal]	dec_str	Dec [sexagesimal]
dec	Dec [decimal]	dec	Dec [decimal]
raerr1	RA Upper Unc	N/A	N/A
raerr2	RA Lower Unc	N/A	N/A
decerr1	Dec Upper Unc	N/A	N/A
decerr2	Dec Lower Unc	N/A	N/A
glat	Galactic Latitude [deg]	st_glat	Galactic Latitude [deg]
glaterr1	Galactic Latitude [deg] Upper Unc	N/A	N/A
glaterr2	Galactic Latitude [deg] Lower Unc	N/A	N/A
glon	Galactic Longitude [deg]	st_glon	Galactic Longitude [deg]
glonerr1	Galactic Longitude [deg] Upper Unc	N/A	N/A
glonerr2	Galactic Longitude [deg] Lower Unc	N/A	N/A
elat	Ecliptic Latitude [deg]	st_elat	Ecliptic Latitude [deg]
elaterr1	Ecliptic Latitude [deg] Upper Unc	N/A	N/A
elaterr2	Ecliptic Latitude [deg] Lower Unc	N/A	N/A
elon	Ecliptic Longitude [deg]	st_elon	Ecliptic Longitude [deg]
elonerr1	Ecliptic Longitude [deg] Upper Unc	N/A	N/A
elonerr2	Ecliptic Longitude [deg] Lower Unc	N/A	N/A
sy_pm	Total Proper Motion [mas/yr]	st_pm	Total Proper Motion [mas/yr]
sy_pmerr1	Total Proper Motion Upper Unc [mas/yr]	st_pmerr	Total Proper Motion Upper Unc [mas/yr]
sy_pmerr2	Total Proper Motion Lower Unc [mas/yr]	st_pmerr	Total Proper Motion Lower Unc [mas/yr]
sy_pmra	Proper Motion (RA) [mas/yr]	st_pmra	Proper Motion (RA) [mas/yr]
sy_pmraerr1	Proper Motion (RA) [mas/yr] Upper Unc	st_pmraerr	Proper Motion (RA) [mas/yr] Upper Unc

sy_pmraerr2	Proper Motion (RA) [mas/yr] Lower Unc	st_pmraerr	Proper Motion (RA) [mas/yr] Lower Unc
sy_pmdec	Proper Motion (Dec) [mas/yr]	st_pmdec	Proper Motion (Dec) [mas/yr]
sy_pmdecerr1	Proper Motion (Dec) [mas/yr] Upper Unc	st_pmdecerr	Proper Motion (Dec) [mas/yr] Upper Unc
sy_pmdecerr2	Proper Motion (Dec) [mas/yr] Lower Unc	st_pmdecerr	Proper Motion (Dec) [mas/yr] Lower Unc
sy_dist	Distance [pc]	st_dist	Distance [pc]
sy_disterr1	Distance [pc] Upper Unc	st_disterr1	Distance [pc] Upper Unc
sy_disterr2	Distance [pc] Lower Unc	st_disterr2	Distance [pc] Lower Unc
sy_plx	Parallax [mas]	st_plx	Parallax [mas]
sy_plxerr1	Parallax [mas] Upper Unc	st_plxerr1	Parallax [mas] Upper Unc
sy_plxerr2	Parallax [mas] Lower Unc	st_plxerr2	Parallax [mas] Lower Unc
sy_bmag	B (Johnson) Magnitude	st_bj	B (Johnson) Magnitude
sy_bmagerr1	B (Johnson) Magnitude Upper Unc	st_bjerr	B (Johnson) Magnitude Upper Unc
sy_bmagerr2	B (Johnson) Magnitude Lower Unc	st_bjerr	B (Johnson) Magnitude Lower Unc
sy_vmag	V (Johnson) Magnitude	st_vj	V (Johnson) Magnitude
sy_vmagerr1	V (Johnson) Magnitude Upper Unc	st_vjerr	V (Johnson) Magnitude Upper Unc
sy_vmagerr2	V (Johnson) Magnitude Lower Unc	st_vjerr	V (Johnson) Magnitude Lower Unc
sy_jmag	J (2MASS) Magnitude	st_j	J (2MASS) Magnitude
sy_jmagerr1	J (2MASS) Magnitude Upper Unc	st_jerr	J (2MASS) Magnitude Upper Unc
sy_jmagerr2	J (2MASS) Magnitude Lower Unc	st_jerr	J (2MASS) Magnitude Lower Unc
sy_hmag	H (2MASS) Magnitude	st_h	H (2MASS) Magnitude
sy_hmagerr1	H (2MASS) Magnitude Upper Unc	st_herr	H (2MASS) Magnitude Upper Unc
sy_hmagerr2	H (2MASS) Magnitude Lower Unc	st_herr	H (2MASS) Magnitude Lower Unc
sy_kmag	Ks (2MASS) Magnitude	st_k	Ks (2MASS) Magnitude
sy_kmagerr1	Ks (2MASS) Magnitude Upper Unc	st_kerr	Ks (2MASS) Magnitude Upper Unc
sy_kmagerr2	Ks (2MASS) Magnitude Lower Unc	st_kerr	Ks (2MASS) Magnitude Lower Unc
sy_umag	u (Sloan) Magnitude	st_uj	Johnson U-band replaced with Sloan u-band
sy_umagerr1	u (Sloan) Magnitude Upper Unc	st_ujerr	u (Sloan) Magnitude Upper Unc
sy_umagerr2	u (Sloan) Magnitude Lower Unc	st_ujerr	u (Sloan) Magnitude Lower Unc
sy_gmag	g (Sloan) Magnitude	N/A	N/A
sy_gmagerr1	g (Sloan) Magnitude Upper Unc	N/A	N/A
sy_gmagerr2	g (Sloan) Magnitude Lower Unc	N/A	N/A
sy_rmag	r (Sloan) Magnitude	st_rc	Cousins R-band replaced with Sloan r-band
sy_rmagerr1	r (Sloan) Magnitude Upper Unc	st_rcerr	r (Sloan) Magnitude Upper Unc

sy_rmager2	r (Sloan) Magnitude Lower Unc	st_rcerr	r (Sloan) Magnitude Lower Unc
sy_imag	i (Sloan) Magnitude	N/A	N/A
sy_imagerr1	i (Sloan) Magnitude Upper Unc	N/A	N/A
sy_imagerr2	i (Sloan) Magnitude Lower Unc	N/A	N/A
sy_zmag	z (Sloan) Magnitude	N/A	N/A
sy_zmagerr1	z (Sloan) Magnitude Upper Unc	N/A	N/A
sy_zmagerr2	z (Sloan) Magnitude Lower Unc	N/A	N/A
sy_w1mag	W1 (WISE) Magnitude	st_wise1	W1 (WISE) Magnitude
sy_w1magerr1	W1 (WISE) Magnitude Upper Unc	st_wise1err	W1 (WISE) Magnitude Upper Unc
sy_w1magerr2	W1 (WISE) Magnitude Lower Unc	st_wise1err	W1 (WISE) Magnitude Lower Unc
sy_w2mag	W2 (WISE) Magnitude	st_wise2	W2 (WISE) Magnitude
sy_w2magerr1	W2 (WISE) Magnitude Upper Unc	st_wise2err	W2 (WISE) Magnitude Upper Unc
sy_w2magerr2	W2 (WISE) Magnitude Lower Unc	st_wise2err	W2 (WISE) Magnitude Lower Unc
sy_w3mag	W3 (WISE) Magnitude	st_wise3	W3 (WISE) Magnitude
sy_w3magerr1	W3 (WISE) Magnitude Upper Unc	st_wise3err	W3 (WISE) Magnitude Upper Unc
sy_w3magerr2	W3 (WISE) Magnitude Lower Unc	st_wise3err	W3 (WISE) Magnitude Lower Unc
sy_w4mag	W4 (WISE) Magnitude	st_wise4	W4 (WISE) Magnitude
sy_w4magerr1	W4 (WISE) Magnitude Upper Unc	st_wise4err	W4 (WISE) Magnitude Upper Unc
sy_w4magerr2	W4 (WISE) Magnitude Lower Unc	st_wise4err	W4 (WISE) Magnitude Lower Unc
sy_gaiamag	Gaia Magnitude	gaia_gmag	Gaia Magnitude
sy_gaiamagerr1	Gaia Magnitude Upper Unc	gaia_gmagerr	Gaia Magnitude Upper Unc
sy_gaiamagerr2	Gaia Magnitude Lower Unc	gaia_gmagerr	Gaia Magnitude Lower Unc
sy_icmag	I (Cousins) Magnitude	st_ic	I (Cousins) Magnitude
sy_icmagerr1	I (Cousins) Magnitude Upper Unc	st_icerr	I (Cousins) Magnitude Upper Unc
sy_icmagerr2	I (Cousins) Magnitude Lower Unc	st_icerr	I (Cousins) Magnitude Lower Unc
sy_tmag	TESS Magnitude	N/A	N/A
sy_tmagerr1	TESS Magnitude Upper Unc	N/A	N/A
sy_tmagerr2	TESS Magnitude Lower Unc	N/A	N/A
sy_kepmag	Kepler Magnitude	N/A	N/A
sy_kepmagerr1	Kepler Magnitude Upper Unc	N/A	N/A
sy_kepmagerr2	Kepler Magnitude Lower Unc	N/A	N/A
rowupdate	Date of Last Update	rowupdate	Date of Last Update
pl_pubdate	Planetary Parameter Reference Publication Date	pl_publ_date	Planetary Parameter Reference Publication Date

releasedate	Release Date	N/A	N/A
pl_nnotes	Number of Notes	pl_nnotes	Number of Notes
st_nphot	Number of Photometry Time Series	N/A	N/A
st_nrvc	Number of Radial Velocity Time Series	st_nrvc	Number of Radial Velocity Time Series
st_nspec	Number of Stellar Spectra Measurements	st_nspec	Number of Stellar Spectra Measurements
pl_nespec	Number of Emission Spectroscopy Measurements	N/A	N/A
pl_ntranspec	Number of Transmission Spectroscopy Measurements	N/A	N/A

Extended Parameters (retiring)

Database Column Name Table Label or Comment

Column5	Column6
mpl_name	Planet Name
mpl_hostname	Host Name
mpl_letter	Planet Letter
hd_name	HD ID
hip_name	HIP ID
N/A	N/A
N/A	N/A
N/A	N/A
mpl_def	Default Parameter Set
N/A	N/A
mpl_pnum	Number of Planets
mpl_mnum	Number of Moons
N/A	N/A
mpl_discmethod	Discovery Method
mpl_disc	Discovery Year
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
mpl_rvflag	N/A
N/A	N/A
N/A	N/A
mpl_tranflag	Detected by Transits
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
mpl_orbper	Orbital Period [days]
mpl_orbpererr1	Orbital Period Upper Unc. [days]
mpl_orbpererr2	Orbital Period Lower Unc. [days]
mpl_orbperlim	Orbital Period Limit Flag
mpl_orbsmax	Orbit Semi-Major Axis [au]
mpl_orbsmaxerr1	Orbit Semi-Major Axis Upper Unc. [au]
mpl_orbsmaxerr2	Orbit Semi-Major Axis Lower Unc. [au]
mpl_orbsmaxlim	Orbit Semi-Major Axis Limit Flag
mpl_rade	Planet Radius [Earth Radius]
mpl_radeerr1	Planet Radius Upper Unc. [Earth Radius]
mpl_radeerr2	Planet Radius Lower Unc. [Earth Radius]
mpl_radelim	Planet Radius Limit Flag
mpl_radj	Planet Radius [Jupiter Radius]
mpl_radjerr1	Planet Radius Upper Unc. [Jupiter Radius]
mpl_radjerr2	Planet Radius Lower Unc. [Jupiter Radius]
mpl_radjlim	Planet Radius Limit Flag
mpl_masse	Planet Mass [Earth Mass]
mpl_masse	Planet Mass [Earth Mass] Upper Unc.
mpl_masse	Planet Mass [Earth Mass] Lower Unc.
mpl_masse	Planet Mass [Earth Mass] Limit Flag
mpl_massj	Planet Mass [Jupiter Mass]
mpl_massjerr1	Planet Mass [Jupiter Mass] Upper Unc.
mpl_massjerr2	Planet Mass [Jupiter Mass] Lower Unc.
mpl_massjlim	Planet Mass [Jupiter Mass] Limit Flag
mpl_msinie	Planet Mass*sin(i) [Earth Mass]
mpl_msinieerr1	Planet Mass*sin(i) [Earth Mass] Upper Unc.
mpl_msinieerr2	Planet Mass*sin(i) [Earth Mass] Lower Unc.
mpl_msinielim	Planet Mass*sin(i) [Earth Mass] Limit Flag

mpl_msini _j	Planet Mass* $\sin(i)$ [Jupiter Mass]
mpl_msini _{jerr1}	Planet Mass* $\sin(i)$ [Jupiter Mass] Upper Unc.
mpl_msini _{jerr2}	Planet Mass* $\sin(i)$ [Jupiter Mass] Lower Unc.
mpl_msini _{jlim}	Planet Mass* $\sin(i)$ [Jupiter Mass] Limit Flag
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
mpl_bmasse	Planet Mass or Mass* $\sin(i)$ [Earth Mass]
mpl_bmasse _{err1}	Planet Mass or Mass* $\sin(i)$ [Earth Mass] Upper Unc.
mpl_bmasse _{err2}	Planet Mass or Mass* $\sin(i)$ [Earth Mass] Lower Unc.
mpl_bmass _{elim}	Planet Mass or Mass* $\sin(i)$ [Earth Mass] Limit Flag
mpl_bmass _j	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass]
mpl_bmass _{jerr1}	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass] Upper Unc.
mpl_bmass _{jerr2}	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass] Lower Unc.
mpl_bmass _{jlim}	Planet Mass or Mass* $\sin(i)$ [Jupiter Mass] Limit Flag
mpl_bmass _{prov}	Planet Mass or Mass* $\sin(i)$ Provenance
mpl_dens	Planet Density [g/cm ³]
mpl_dens _{err1}	Planet Density Upper Unc. [g/cm ³]
mpl_dens _{err2}	Planet Density Lower Unc. [g/cm ³]
mpl_dens _{lim}	Planet Density Limit Flag
mpl_orbeccen	Eccentricity
mpl_orbeccen _{err1}	Eccentricity Upper Unc.
mpl_orbeccen _{err2}	Eccentricity Lower Unc.
mpl_orbeccen _{lim}	Eccentricity Limit Flag
mpl_insol	Insolation Flux [Earth Flux]
mpl_insol _{err1}	Insolation Flux Upper Unc. [Earth Flux]
mpl_insol _{err2}	Insolation Flux Lower Unc. [Earth Flux]
mpl_insol _{lim}	Insolation Flux Limit Flag

mpl_eqt	Equilibrium Temperature [K]
mpl_eqterr1	Equilibrium Temperature Upper Unc. [K]
mpl_eqterr2	Equilibrium Temperature Lower Unc. [K]
mpl_eqtlim	Equilibrium Temperature Limit Flag
mpl_orbincl	Inclination [deg]
mpl_orbinclerr1	Inclination Upper Unc. [deg]
mpl_orbinclerr2	Inclination Lower Unc. [deg]
mpl_orbincllim	Inclination Limit Flag
mpl_tranmid	Transit Midpoint [days]
mpl_tranmiderr1	Transit Midpoint Upper Unc. [days]
mpl_tranmiderr2	Transit Midpoint Lower Unc. [days]
mpl_tranmidlim	Transit Midpoint Limit Flag
mpl_tsystemref	Transit Midpoint Time Reference Frame and Standard
mpl_ttvflag	Data show Transit Timing Variations
mpl_imppar	Impact Parameter
mpl_impparerr1	Impact Parameter Upper Unc.
mpl_impparerr2	Impact Parameter Lower Unc.
mpl_impparlim	Impact Parameter Limit Flag
mpl_trandep	Transit Depth [%]
mpl_trandeperr1	Transit Depth Upper Unc. [%]
mpl_trandeperr2	Transit Depth Lower Unc. [%]
mpl_trandeplim	Transit Depth Limit Flag
mpl_trandur	Transit Duration [hours]
mpl_trandurerr1	Transit Duration Upper Unc. [hours]
mpl_trandurerr2	Transit Duration Lower Unc. [hours]
mpl_trandurlim	Transit Duration Limit Flag
mpl_ratdor	Ratio of Semi-Major Axis to Stellar Radius
mpl_ratdorerr1	Ratio of Semi-Major Axis to Stellar Radius Upper Unc.
mpl_ratdorerr2	Ratio of Semi-Major Axis to Stellar Radius Lower Unc.
mpl_ratdorlim	Ratio of Semi-Major Axis to Stellar Radius Limit Flag
mpl_rator	Ratio of Planet to Stellar Radius
mpl_ratorerr1	Ratio of Planet to Stellar Radius Upper Unc.
mpl_ratorerr2	Ratio of Planet to Stellar Radius Lower Unc.

mpl_ratorlim	Ratio of Planet to Stellar Radius Limit Flag
mpl_occdep	Occultation Depth [%]
mpl_occdeperr1	Occultation Depth Upper Unc. [%]
mpl_occdeperr2	Occultation Depth Lower Unc. [%]
mpl_occdeplim	Occultation Depth Limit Flag
mpl_orbtper	Epoch of Periastron [days]
mpl_orbtpererr1	Epoch of Periastron Upper Unc. [days]
mpl_orbtpererr2	Epoch of Periastron Lower Unc. [days]
mpl_orbtperlim	Epoch of Periastron Limit Flag
N/A	N/A
mpl_orblper	Argument of Periastron [deg]
mpl_orblpererr1	Argument of Periastron Upper Unc. [deg]
mpl_orblpererr2	Argument of Periastron Lower Unc. [deg]
mpl_orblperlim	Argument of Periastron Limit Flag
mpl_rvamp	Radial Velocity Amplitude [m/s]
mpl_rvamperr1	Radial Velocity Amplitude Upper Unc. [m/s]
mpl_rvamperr2	Radial Velocity Amplitude Lower Unc. [m/s]
mpl_rvamplim	Radial Velocity Amplitude Limit Flag
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
mst_teff	Stellar Effective Temperature [K]
mst_tefferr1	Stellar Effective Temperature Upper Unc. [K]
mst_tefferr2	Stellar Effective Temperature Lower Unc. [K]
mst_tefflim	Stellar Effective Temperature Limit Flag
mst_rad	Stellar Radius [Solar Radius]

mst_raderr1	Stellar Radius Upper Unc. [Solar Radius]
mst_raderr2	Stellar Radius Lower Unc. [Solar Radius]
mst_radlim	Stellar Radius Limit Flag
mst_mass	Stellar Mass [Solar mass]
mst_masserr1	Stellar Mass Upper Unc. [Solar mass]
mst_masserr2	Stellar Mass Lower Unc. [Solar mass]
mst_masslim	Stellar Mass Limit Flag
mst_metfe	Stellar Metallicity [dex]
mst_metfeerr1	Stellar Metallicity Upper Unc. [dex]
mst_metfeerr2	Stellar Metallicity Lower Unc. [dex]
mst_metfelim	Stellar Metallicity Limit Flag
mst_metratio	Stellar Metallicity Ratio
mst_lum	Stellar Luminosity [log(Solar)]
mst_lumerr1	Stellar Luminosity Upper Unc. [log(Solar)]
mst_lumerr2	Stellar Luminosity Lower Unc. [log(Solar)]
mst_lumlim	Stellar Luminosity Limit Flag
mst_logg	Stellar Surface Gravity [log10(cm/s**2)]
mst_loggerr1	Stellar Surface Gravity Upper Unc. [log10(cm/s**2)]
mst_loggerr2	Stellar Surface Gravity Lower Unc. [log10(cm/s**2)]
mst_logglim	Stellar Surface Gravity Limit Flag
mst_age	Stellar Age [Gyr]
mst_ageerr1	Stellar Age Upper Unc. [Gyr]
mst_ageerr2	Stellar Age Lower Unc. [Gyr]
mst_agelim	Stellar Age Limit Flag
mst_dens	Stellar Density [g/cm**3]
mst_denserr1	Stellar Density Upper Unc. [g/cm**3]
mst_denserr2	Stellar Density Lower Unc. [g/cm**3]
mst_denslim	Stellar Density Limit Flag
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A
N/A	N/A

N/A
N/A
N/A
N/A
N/A
N/A
N/A

N/A
N/A
N/A
N/A
N/A
N/A
N/A