“exoplanets”
model candidates k2 system earth stars orbital curve exoplanets tess systems transiting planetary kepler exoplanet curves light transit planet planets
“radiative transfer spectra simulation”
fitting temperature transmission synthetic atmospheres code absorption model observations resolution spectrum atmospheric molecular transfer radiative lines emission spectral spectra line
“galaxies”
masses radius properties disc population age distribution dust models clusters evolution model cluster formation galaxy stars star galaxies stellar mass
“data reduction pipelines”
algorithms high survey time telescope learning based library imaging sources processing images astronomical image pipeline radio analysis data
“hydrodynamic simulations”
models present available simulation grid radiation general order codes mesh time relativistic method hydrodynamics particle body equations simulations numerical code
“cosmology”
halos space large bias clustering scales cmb simulations model cosmic scale spectrum redshift cosmological lensing power galaxy halo dark matter
“statistical inference”
algorithm method probability distributions estimation markov chain mcmc models parameters carlo monte model nested parameter likelihood posterior inference sampling bayesian
grapus
EqTide
satcand
exopop
epos
sbpy
Oxygen-False-Positives
photodynam
Icarus
raccoon
orbit-estimation
oorb
ATES-Code
sunbather
THOR
igmtransmission
CHIMERA
POSEIDON
exocartographer
spiderman
kepler-robovetter
EphemMatch
ECCSAMPLES
tls
TTVFast
MACULA
FBEYE
appaloosa
EXOFASTv2
eleanor
DIA
carma_pack
LATTE
exodata
applesoss
APOLLO
PandExo
unicorn
vast
bem
forecaster
sedkit
M_-M_K-
fiducial_flare
BASTA
mesa
tellrv
CCFpams
specmatch-emp
indexf
ARES
SpectRes
nebular
gCMCRT
radiobear
FilFinder
sedbys
PySSED
iso
bolometric-corrections
TheCannon
krome
TEA
rate
cubefit
spectools_ir
HII-CHI-Mistry
ramses
javelin
abo-cross
artis
C2-Ray1D
DisPerSE
nway
MGwave
cprops
QuasarNET
UVMultiFit
fac
Bbarolo
GLS
EBTEL
Iseult
Athena-Cversion
sicon
boxfit
gasoline
ForwardDiff.jl
apollinaire
SolarAxionFlux
opt_einsum
TheHammer
descqa
pywd2015-qt5
CMasher
two-pop-py
2-DUST
stardust
DiskJockey
gidget
galpy
dust_extinction
picaso
sphray
sirocco
Snapdragons
gaia_tools
photoParallax
Blobby3D
easyGalaxy
cjam
Pangloss
baolab
dsde
zoobot
CosmoGraph
nemo
ThumbStack
healpy
yt
dark_emulator_public
Pinocchio
CCL
collapse
HMcode
barcode
cosmoxi2d
BCemu
Revolver
skyLine
panfit_classic
PyMultiNest
PIAO
ParticleGridMapper.jl
FAST
starfish
bagpipes
sage
source-code
TRINITY
validation
mcluster
CosmicEmu
HBT
SatGen
PyUltraLight
axionCAMB
RadioFisher
random-quintessence
kilopop
CRPropa3
delphes
GR1D
gwsurrogate
pycbc
GWFrames
gwpy
gausspy
21cmFAST
21cmSense
cosmic_variance
ebhlight
relxill
gray
surfinBH
BlackHolesDarkDress
COMPAS
hoki
COSMIC
dftools
DarkARC
HDMSpectra
nuHawkHunter
ngist
Castro
Zeltron-code
vortex
amuse
TROVE
PyMsOfa
nfield
GRFolres
genetIC
music
busy-function-fitting
turbulence_generator
Copter
velociraptors
class_public
cbird
montepython_public
NaMaster
afterglowpy
synthlisa
peregrine
gwfast
lensinggw
flask
DeepMass
epsnoise
pybird
plancklens
mining-for-substructure-lens
LensingETC
hierArc
glafic2
LensPop
triplelens
microlensing
TTVFaster
gyre
grasp
GRChombo
RePrimAnd
pcat
armadillo-gmm
CUTE
Bisous
CosmoBolognaLib
fftw3
Triumvirate
hdbscan
cosmosis
bianchi
deepsphere-cosmo-tf1
pyselfi
BornRaytrace
hh0
cmb-multipole_vectors
lollipop
tqdm
gala
DynamicalSystems.jl
gammapy
package-x
torchgan
celerite
celerite2
aims
arviz
MCSpearman
extreme-deconvolution
bmcmc
mc3
UltraNest
corner.py
ChainConsumer
MultiNest
ptemcee
DNest4
dynesty
astroplan
pvlib-python
ChiantiPy
JHelioviewer-SWHV
tangos
q3c
fermipy
astropy
sourceextractorplusplus
pyimfit
Cuba.jl
pal
LyaCoLoRe
DeepMoon
BaCoN
SkyNet
astroscrappy
numpyro
py-sdm
MLZ
eazy-photoz
fitScalingRelation
stellar-locus-regression
PRISM
HiFLEx
Eureka
idg
apero-drs
PypeIt
matplotlib
PynPoint
swarp
prose
corral
iraf
chroma
statmorph
ProFound
morpheus
AnomalyALeRCE
SSMM
feets
cat-puma
SHEEP
supernovae
SuperNNova
applefy
mayo_hci
acorns-adi
caracal
eht-imaging
wsclean
resolve
blobcat
aoflagger
muse-psfr
rfpipe
autophot
AMBER
MOSFiT
FLEET
astrorapid
parsnip
astrocats
CalPriorSNIa
QUB-SNID-Templates
snsed
stingray
stingray
TempoNest
PsrPopPy
PulsePortraiture
clfd
rfiiclean
RRATtrap
TRECS
fetch