ExoSpec

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Exception	
exospec.lc_class.DifferentFileSizes	5
exospec.lc_class.DifferentParamNum	5
exospec.lc_class.EmptyFile	6
exospec.lc_class.EmptyFolder	7
exospec.lc_class.IncorrectNameFormat	7
exospec.read_input.EmptyFile	6
exospec.read_input.NoInput	
exospec.lc_class.LightCurve	7
exospec.lc_class.LightCurveData	8
object	
exospec.mcmc.MCMC	9
exospec.TransitModel.TransitModel	5
exospec.read_input.read_input	4

2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

exospec.lc_class.DifferentFileSizes	5
exospec.lc_class.DifferentParamNum	5
exospec.read_input.EmptyFile	6
exospec.lc_class.EmptyFile	6
exospec.lc_class.EmptyFolder	7
exospec.lc_class.IncorrectNameFormat	7
exospec.lc_class.LightCurve	7
exospec.lc_class.LightCurveData	8
exospec.mcmc.MCMC	
Class to run MCMC to fit curve and produce basic diagnostic plots and statistics Uses emcee (to	
run MCMC) and corner (to produce triangle plots)	9
exospec.read input.NoInput	
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exospec.TransitModel.TransitModel	
Class to estimate the Transit Model with the customized kernel	15

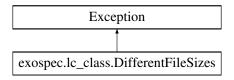
4 Class Index

Chapter 3

Class Documentation

3.1 exospec.lc_class.DifferentFileSizes Class Reference

Inheritance diagram for exospec.lc_class.DifferentFileSizes:



3.1.1 Detailed Description

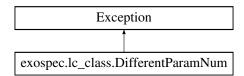
Raise when one the light curve file does not have the same size with light curve file for the lowest wavelengt

The documentation for this class was generated from the following file:

 $\bullet \ / Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/lc_class.py$

3.2 exospec.lc_class.DifferentParamNum Class Reference

Inheritance diagram for exospec.lc_class.DifferentParamNum:



3.2.1 Detailed Description

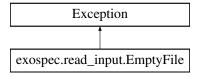
Raise when one the light curve file does not have the same number of parameters with light curve file for the

The documentation for this class was generated from the following file:

• /Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/lc_class.py

3.3 exospec.read_input.EmptyFile Class Reference

Inheritance diagram for exospec.read_input.EmptyFile:



3.3.1 Detailed Description

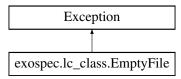
Raise when the input file is empty or only has comments

The documentation for this class was generated from the following file:

/Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/read_input.py

3.4 exospec.lc_class.EmptyFile Class Reference

Inheritance diagram for exospec.lc_class.EmptyFile:



3.4.1 Detailed Description

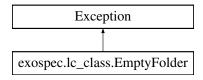
Raise when the light curve file is empty

The documentation for this class was generated from the following file:

/Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/lc_class.py

3.5 exospec.lc_class.EmptyFolder Class Reference

Inheritance diagram for exospec.lc_class.EmptyFolder:



3.5.1 Detailed Description

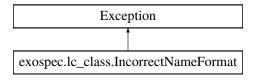
Raise when the light curve folder is empty

The documentation for this class was generated from the following file:

/Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/lc_class.py

3.6 exospec.lc_class.lncorrectNameFormat Class Reference

Inheritance diagram for exospec.lc_class.IncorrectNameFormat:



3.6.1 Detailed Description

 $\hbox{\tt Raise when the light curve file name is not under the expected format $\tt sample_lc_<\tt wavelength>.txt } \\$

The documentation for this class was generated from the following file:

• /Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/lc_class.py

3.7 exospec.lc_class.LightCurve Class Reference

Public Member Functions

- def __init__ (self, PathToLC, wave_bin_size)
- def LC_dic (self)
- def wave_length (self)
- def new_wave_length (self)
- def store_transit_model (self, transit_model)

Public Attributes

- · files_list
- · files num
- · wave_length
- · new_wave_length
- LC_dic
- · obj mcmc
- · obj_chain
- · obj_mcmcGP
- · obj_chainGP
- transit_model

The documentation for this class was generated from the following file:

• /Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/lc_class.py

3.8 exospec.lc_class.LightCurveData Class Reference

Public Member Functions

- def __init__ (self, Path to files)
- def len_file (self)
- def time (self)
- · def flux (self)
- def ferr (self)
- def param_num (self)
- def param_name (self)
- def param_list (self)
- def new_time_bin (self, bin_size)
- def plot_flux_time (self, bin_size)
- def plot_flux_param (self, param_index)

Public Attributes

- · len_file
- time
- flux
- ferr
- param_num
- · param_name
- param list

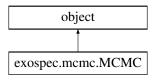
The documentation for this class was generated from the following file:

• /Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/lc_class.py

3.9 exospec.mcmc.MCMC Class Reference

Class to run MCMC to fit curve and produce basic diagnostic plots and statistics Uses emcee (to run MCMC) and corner (to produce triangle plots)

Inheritance diagram for exospec.mcmc.MCMC:



Public Member Functions

- def __init__ (self, t, val, err, ln_prob_fn, transit_params, hyper_params, num_walkers, num_threads)
 The constructor.
- def run (self, pos, burnin steps, production run steps)

Runs the MCMC should run emcee given a log probability function result is the MCMC chains which are saved as an object attribute.

· def save chain (self, filename)

Saves the chain as a numpy array.

def get_mean_acceptance_fraction (self)

Allows the user to access the mean acceptance fraction, which should be around 1/2.

def get_median_and_errors (self)

Best fit parameters and 1 sigma errors.

• def triangle_plot (self, extra_burnin_steps=0, theta_true=None, plot_transit_params=True, plot_hyper_← params=True, save_as_dir=".", save_as_name="triangle.png")

Makes a triangle plot If an error is encountered the function returns 1 but does not raise an exception.

def walker_plot (self, extra_burnin_steps=0, theta_true=None, plot_transit_params=True, plot_hyper_
 params=True, save_as_dir=".", save_as_name="walkers.png")

Plots the chains of each walker and a histogram showing how each parameter was sampled If an error is encountered the function returns 1 but does not raise an exception.

Plots the chains of each walker and a histogram showing how each parameter was sampled If an error is encountered the function returns 1 but does not raise an exception.

3.9.1 Detailed Description

Class to run MCMC to fit curve and produce basic diagnostic plots and statistics Uses emcee (to run MCMC) and corner (to produce triangle plots)

3.9.2 Constructor & Destructor Documentation

```
3.9.2.1 __init__()
```

The constructor.

Parameters

self	The object pointer
t	A numpy array of the independent variable for the data to be fitted
val	A numpy array of the dependent variable for the data to be fitted
err	A numpy array of the errors on the dependent variable
In_prob_fn	The log probability function to be sampled by the MCMC chain
transit_params	A list of strings giving the names of the curve's parameter's
hyper_params	A list of strings giving the names of noise parameters
num_walkers	Integer giving the number of walkers for the MCMC run
num_threads	An integer giving the number of threads to use on each core

3.9.3 Member Function Documentation

3.9.3.1 get_mean_acceptance_fraction()

```
\label{lem:condition} \mbox{def exospec.mcmc.MCMC.get\_mean\_acceptance\_fraction (} \\ self \mbox{)}
```

Allows the user to access the mean acceptance fraction, which should be around 1/2.

Parameters

self	The object pointer

Returns

Mean acceptance fraction

3.9.3.2 get_median_and_errors()

```
\label{lem:condition} \mbox{def exospec.mcmc.MCMC.get_median\_and\_errors (} \\ self \mbox{)}
```

Best fit parameters and 1 sigma errors.

Parameters

```
self The object pointer
```

Returns

Three numpy arrays giving the median and one sigma errors for each parameter

3.9.3.3 light_curve_plot()

Plots the chains of each walker and a histogram showing how each parameter was sampled If an error is encountered the function returns 1 but does not raise an exception.

These plots are useful for visualization but should not cause the code to crash, as the main purpose is to create and save the MCMC chains

Parameters

self	The object pointer
model	A function that returns the lightcurve shape as a function of the light curve parameters and time
extra_burnin_steps	Number of steps (in addition to burnin_steps from run) at the start of each chain to neglect
theta_true	Numpy array of true parameter values if known (used for test data)
plot_transit_params	Boolean value specifying whether or not to plot the transit parameters
plot_hyper_params	Boolean value specifying whether or not to plot the hyper parameters
save_as_dir	Directory where plot should be saved. Default is current working Directory
save_as_name	Name under which plot should be saved

Return values

0	if successful

Return values

```
1 on failure
```

3.9.3.4 run()

Runs the MCMC should run emcee given a log probability function result is the MCMC chains which are saved as an object attribute.

Parameters

self	The object pointer
pos	A 2D numpy array giving the initial positions of the walkers in parameter space
burnin_steps	An integer giving the number of initial steps to take to start exploring the parameter space before starting to save the chains
production_run_steps	The number of steps to take for each walker after the burnin phase

Returns

A 2D numpy array with all the samples for each of the transit and hyper parameters

3.9.3.5 save_chain()

Saves the chain as a numpy array.

Parameters

self	The object pointer
filename	The filename including path where the chains should be saved

Return values

0	if successful
1	if an IO error occurs

3.9.3.6 triangle_plot()

Makes a triangle plot If an error is encountered the function returns 1 but does not raise an exception.

These plots are useful for visualization but should not cause the code to crash, as the main purpose is to create and save the MCMC chains

Parameters

self	The object pointer
extra_burnin_steps	Number of steps (in addition to burnin_steps from run) at the start of each chain to neglect
theta_true	Numpy array of true parameter values if known (used for test data)
plot_transit_params	Boolean value specifying whether or not to plot the transit parameters
plot_hyper_params	Boolean value specifying whether or not to plot the hyper parameters
save_as_dir	Directory where plot should be saved. Default is current working Directory
save_as_name	Name under which plot should be saved

Return values

0	if successful
1	on failure

3.9.3.7 walker_plot()

Plots the chains of each walker and a histogram showing how each parameter was sampled If an error is encountered the function returns 1 but does not raise an exception.

These plots are useful for visualization but should not cause the code to crash, as the main purpose is to create and save the MCMC chains

Parameters

self	The object pointer
extra_burnin_steps	Number of steps (in addition to burnin_steps from run) at the start of each chain to neglect
theta_true	Numpy array of true parameter values if known (used for test data)
plot_transit_params	Boolean value specifying whether or not to plot the transit parameters
plot_hyper_params	Boolean value specifying whether or not to plot the hyper parameters
save_as_dir	Directory where plot should be saved. Default is current working Directory
save_as_name	Name under which plot should be saved

Return values

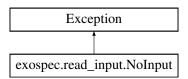
0	if successful
1	on failure

The documentation for this class was generated from the following file:

• /Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/mcmc.py

3.10 exospec.read_input.NoInput Class Reference

Inheritance diagram for exospec.read_input.NoInput:



3.10.1 Detailed Description

Raise when no input is found for a parameter

The documentation for this class was generated from the following file:

• /Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/read_input.py

3.11 exospec.read_input.read_input Class Reference

Public Member Functions

- def __init__ (self, input_file)
- def param_dic (self)
- def is_float (self, string)

Public Attributes

· param dic

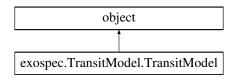
The documentation for this class was generated from the following file:

/Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/read_input.py

3.12 exospec.TransitModel.TransitModel Class Reference

Class to estimate the Transit Model with the customized kernel.

Inheritance diagram for exospec. Transit Model. Transit Model:



Public Member Functions

• def init (self, kwargs)

The constructor.

def set_values (self, dict_of_values, kwargs)

Set the parameters of the model based on the values provided.

def read_limb_dark_params (self, kwargs)

Forms a list of the limb darkening parameters from the user input In case some values are missed, the default ones will be taken.

• def read_errors_data (self, kwargs)

Collects the data about errors that was passed In case some values are missed, the default ones will be taken.

• def update_data (self, time=None, obs=None, kwargs)

Updates the data for the given parameters.

• def update_transit_params (self, rp_new, u_new)

Updates the parameters of the model.

• def update_kernel_params (self, a_new=None, gamma_new=None, variance_new=None)

Updates the hyperparameters of the kernel function.

• def updateTransitMode (self)

Updates the transit model parameters.

· def model (self)

Returns the flux values array.

- def model (self, params)
- def meanfnc (self, t)

Mean function for the kernel meaan estimation.

def kernelfnc (self, x1, x2, p=None)

Computes the kernel function for the arbitrary sources of errors in the observations.

· def Inlike gp (self)

Computes the log likelihood from gaussian process.

def Inprior_base (self)

Checks if the batman parameters are within the predefined prior ranges.

def Inprior_gp (self)

Checks if the kernel parameters are within the predefined prior ranges.

• def Inprob gp (self)

Computes the log probability of the parameters for the given data.

def sample_conditional (self, p, t, y, yerr)

For a given set of parameters get predicted y values at t, and separate this into the transit signal component and the noise component.

• def lnprob_mcmc (self, p, t, y, yerr)

MCMC API for the Transit Model object.

Public Attributes

- · batman_default_params
- · transit_default_priors
- · kernel_default_params
- · kernel_default_priors
- · data defaults
- n_errors
- err names
- · errors_list
- params
- · batman_model
- model
- · data dict
- · model_initialized
- · kernel_type
- Inprob

3.12.1 Detailed Description

Class to estimate the Transit Model with the customized kernel.

More details.

3.12.2 Constructor & Destructor Documentation

The constructor.

Takes the disctionary of the parameters and data to customize the object. In case some values are missed, the default one are used.

Parameters

se	lf	The object pointer]
**	kwargs	Accepts the dictionary of data, transit and kernel parameters]

3.12.3 Member Function Documentation

3.12.3.1 kernelfnc()

```
def exospec.TransitModel.RransitModel.kernelfnc ( self, \\ x1, \\ x2, \\ p = None )
```

Computes the kernel function for the arbitrary sources of errors in the observations.

Parameters

self	The object pointer
x1	First time coordinate
x2	Second time coordinate
p(=None)	Kernel auxiliary parameters

Returns

Covariance between two points in time

3.12.3.2 Inlike_gp()

```
def exospec.TransitModel.Inlike_gp ( self \ )
```

Computes the log likelihood from gaussian process.

Parameters

self	The object pointer

Returns

Log likelihood of a set of observations under the Gaussian process model.

3.12.3.3 Inprior_base()

```
\label{local_def} \mbox{def exospec.TransitModel.Inprior\_base (} \\ self \mbox{)}
```

Checks if the batman parameters are within the predefined prior ranges.

Parameters

```
self The object pointer
```

Returns

Returns 0 in case transit parameters whithin the prior range and -inf otherwise

3.12.3.4 Inprior_gp()

```
\label{local_def} \mbox{def exospec.TransitModel.lnprior\_gp (} \\ self \mbox{)}
```

Checks if the kernel parameters are within the predefined prior ranges.

Parameters

```
self The object pointer
```

Returns

Returns -inf in case parameters out of the range and 0.0 if within the prior range

3.12.3.5 Inprob_gp()

```
\label{local_def} \mbox{def exospec.TransitModel.lnprob\_gp (} \\ self \mbox{)}
```

Computes the log probability of the parameters for the given data.

Parameters

self The object pointer

Returns

Log probability of the parameters

3.12.3.6 Inprob_mcmc()

MCMC API for the Transit Model object.

Parameters

self	The object pointer
р	Parameters of the transit
t	Time data
У	Observations data
yerr	Errors data

Returns

Log probability of the chosen parameters

3.12.3.7 meanfnc()

```
def exospec.TransitModel.TransitModel.meanfnc ( self, \\ t \ )
```

Mean function for the kernel meaan estimation.

Parameters

self	The object pointer
t	The time data

3.12.3.8 model()

```
\begin{tabular}{ll} \tt def \ exospec.TransitModel.TransitModel.model \ ( \\ self \ ) \end{tabular}
```

Returns the flux values array.

Parameters

Returns

Model-generated observation for the given transit parameters

3.12.3.9 read_errors_data()

Collects the data about errors that was passed In case some values are missed, the default ones will be taken.

Parameters

self	The object pointer
**kwargs	Dictionary of the parameters to pass

3.12.3.10 read_limb_dark_params()

Forms a list of the limb darkening parameters from the user input In case some values are missed, the default ones will be taken.

Parameters

self	The object pointer
**kwargs	Dictionary of the parameters to pass

3.12.3.11 sample_conditional()

```
def exospec.TransitModel.TransitModel.sample_conditional ( self, \\ p, \\ t,
```

```
y,
yerr )
```

For a given set of parameters get predicted y values at t, and separate this into the transit signal component and the noise component.

Parameters

self	The object pointer
р	Parameters of the transit
t	Time data
У	Observations data
yerr	Errors data

Returns

Predicted observations

3.12.3.12 set_values()

Set the parameters of the model based on the values provided.

In case some values are missed, the default ones will be taken.

Parameters

self	The object pointer	
dict_of_values	Dictionary of the parameters to pass	

3.12.3.13 update_data()

Updates the data for the given parameters.

Parameters

self	The object pointer	
time(=None)	Time data	
obs(=None)	Observations data	
**kwargs	Handles arbitrary number of the errors that was passed	

3.12.3.14 update_kernel_params()

Updates the hyperparameters of the kernel function.

Parameters

self	The object pointer	
a_new	New value of the kernel_a	
gamma_new	New value of the kernel_gamma	

3.12.3.15 update_transit_params()

```
def exospec.TransitModel.TransitModel.update_transit_params ( self, \\ rp\_new, \\ u\_new \ )
```

Updates the parameters of the model.

Parameters

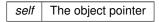
self	The object pointer
rp_new	New value of the rp parameter
u_new	New list of values for the limb darkening

3.12.3.16 updateTransitMode()

```
\label{lem:def_def} \mbox{def exospec.TransitModel.TransitModel.updateTransitMode (} \\ self \mbox{)}
```

Updates the transit model parameters.

Parameters



The documentation for this class was generated from the following file:

 $\bullet \ / Users/heatherp/Documents/Courses/Computational/Project/ExoplanetSpectra/exospec/TransitModel.py$

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