
pyciss Documentation

Release 0.2.0

K.-Michael Aye

November 15, 2016

1	pyciss tutorial	3
2	pyciss	5
2.1	pyciss package	5
3	Indices and tables	7
	Bibliography	9
	Python Module Index	11

This Python package is offering a few tools for working with data from the *Imaging Science Subsystem* of the **Cassini** mission to Saturn. (See [\[PWS+04\]](#) for an introduction to the camera system.)

Contents:

pyciss tutorial

I will show some use cases of *pyciss* here.

2.1 pyciss package

2.1.1 Submodules

2.1.2 pyciss.io module

2.1.3 pyciss.meta module

This module deals with the metadata I have received from collaborators.

It defines the location of ring resonances for the RingCube plotting.

```
pyciss.meta.get_all_resonances()  
pyciss.meta.get_janus_epimetheus_resonances()  
pyciss.meta.get_meta_df()  
pyciss.meta.get_order(name)  
pyciss.meta.get_prime_jan_epi()  
pyciss.meta.get_prime_resonances()  
pyciss.meta.get_resonances()
```

2.1.4 pyciss.opusapi module

2.1.5 pyciss.pipeline module

2.1.6 pyciss.plotting module

2.1.7 pyciss.ringcube module

2.1.8 Module contents

Indices and tables

- `genindex`
- `modindex`
- `search`

- [PWS+04] Carolyn C Porco, Robert A West, Steven Squyres, Alfred McEwen, Peter Thomas, Carl D Murray, Anthony Delgenio, Andrew P. Ingersoll, Torrence V Johnson, Gerhard Neukum, Joseph Veverka, Luke Dones, Andre Brahic, Joseph A Burns, Vance Haemmerle, Benjamin Knowles, Douglas Dawson, Thomas Roatsch, Kevin Beurle, and William Owen. Cassini Imaging Science: Instrument Characteristics and Anticipated Scientific Investigations at Saturn. *The Cassini-Huygens Mission*, pages 363–, 2004. URL: http://adsabs.harvard.edu/cgi-bin/nph-data_query?bibcode=2004chm..book..363P&link_type=EJOURNAL, doi:10.1007/1-4020-3874-7_6.

p

`pyciss`, [5](#)
`pyciss.meta`, [5](#)

G

[get_all_resonances\(\)](#) (in module `pyciss.meta`), [5](#)
[get_janus_epimetheus_resonances\(\)](#) (in module `py-`
`ciss.meta`), [5](#)
[get_meta_df\(\)](#) (in module `pyciss.meta`), [5](#)
[get_order\(\)](#) (in module `pyciss.meta`), [5](#)
[get_prime_jan_epi\(\)](#) (in module `pyciss.meta`), [5](#)
[get_prime_resonances\(\)](#) (in module `pyciss.meta`), [5](#)
[get_resonances\(\)](#) (in module `pyciss.meta`), [5](#)

P

[pyciss](#) (module), [5](#)
[pyciss.meta](#) (module), [5](#)