

Example DIP documentation

Table of contents








Introduction	2
Parameters	3
Node types	3
Parameter list	3
Parameter nodes	4
References	5
Injected values	5
Imported nodes	6
Settings	7
List of units	7
List of sources	8

Introduction

In this document we want to demonstrate basic capabilities of a DIP documentation.....

Parameters

Node types

	Declaration		Injection
	Definition		Import
	Declaration / Modification		
	Definition / Modification		
	Modification		

Parameter list

Property name	#	#	#	#	#	#	#
ics.elementary_charge	1				1		
ics.num_steps		1					
ics.proton_mass	1				1		
ics.time_step	1				1		
output.file		1					

Parameter nodes

ics.elementary_charge

4504665744_FILE1:4		float64
Unit:	C	
4504665744_FILE1:15		mod
Value:	1	
Unit:	[e]	

ics.num_steps

4504665744_FILE1:6		int32
Value:	10000	

ics.proton_mass

4504665744_FILE1:3		float64
Unit:	kg	
4504665744_FILE1:14		mod
Value:	1	
Unit:	[m_p]	

ics.time_step

4504665744_FILE1:5		float64
Unit:	s	
4504665744_FILE1:13		mod
Value:	1	
Unit:	ns	

output.file

4504665744_FILE1:9		str
Value:	trajectory.csv	

References

Injected values

Imported nodes

Settings

List of units

Name	Value	Units	Source
------	-------	-------	--------

List of sources

4504665744_ROOT

File: simulation.py

4504665744_FILE1

File: config.dip

Source: [4504665744_ROOT:33](#)

```
1  # defaults
2  ics
3      proton_mass float kg
4      elementary_charge float C
5      time_step float s
6      num_steps int = 10000
7
8  output
9      file str = "trajectory.csv"
10
11 # user definitions
12 ics
13     time_step = 1 ns
14     proton_mass = 1 [m_p]
15     elementary_charge = 1 [e]
```