

# Package yaslha Manual

---

**Sho Iwamoto / Misho**

Dipartimento di Fisica e Astronomia, Università degli Studi di Padova  
Via Marzolo 8, I-35131 Padova, Italia

[sho.iwamoto@pd.infn.it](mailto:sho.iwamoto@pd.infn.it)

package **yaslha** for Python 3.5+

version: 0.2.0

repository: <https://github.com/misho104/yaslha>

document: <https://yaslha.readthedocs.io/>

License: [MIT License](#)

## Abstract

yaslha is an yet-another Python 3 package to handle SUSY Les Houches Accord (SLHA) files.

<b>1. Introduction</b>	<b>2</b>
1.1. Background	2
1.2. This Package	2
<b>2. Quick Start</b>	<b>2</b>
2.1. Install and uninstall	2
<b>3. Conclusion</b>	<b>3</b>
<b>A. API Reference: yaslha</b>	<b>4</b>
A.1. yaslha package	4
A.2. yaslha.slha module	4
A.3. yaslha.block module	5
A.4. yaslha.comment module	7
A.5. yaslha.line module	8
A.6. yaslha.parser module	10
A.7. yaslha.dumper module	10
A.8. yaslha.script module	12
A.9. yaslha.config module	12
A.10. yaslha.utility module	12

---

## 1. Introduction

### 1.1. Background

SUSY Les Houches accord (SLHA) [1] is a data format widely used in particle physics community. It has been extended as SLHA2 [2] or flavor Les Houches accord (FLHA) [3]....

### 1.2. This Package

yaslha is an yet-another Python 3 package to handle SLHA data.

You can include this package in your Python code for more customization.... The appendices contain additional information of this package. [Appendix A](#) is the full API reference of this package.

## 2. Quick Start

### 2.1. Install and uninstall

This package requires Python 3.5 or above with pip package manager. You may check the versions by

```
$ python -V
Python 3.6.7
$ pip -V
pip 19.0.3
```

With the set-up, you can simply install this package via PyPI:

```
$ pip install yaslha          # to install
$ pip install --upgrade yaslha # or to upgrade

Collecting yaslha
...
Successfully installed yaslha-(version)
```

You can also instantly uninstall this package by

```
$ pip uninstall yaslha
```

### 3. Conclusion

This paper introduces a Python 3 package “yaslha” to handle SLHA format, which can be installed via PyPI. ... (TBW)

This package is managed on [GitHub: misho104/yaslha](#). Bug reports, comments, questions, and contribution are welcome on the website.

### Acknowledgments

(To be written.)

This work is under much influence from the packages [PySLHA](#) by Andy Buckley and [pylha](#) by David M. Straub.

The author credits PyPI as the distributor, GitHub as the repository host, TravisCI and CoverAlls as the host of continuous integration with coverage, and ReadTheDocs as the host of documentation, of this package.

The author (SI) is supported by the MIUR-PRIN project 2015P5SBHT 003 “Search for the Fundamental Laws and Constituents” by INFN (to be clarified),...

## A. API Reference: yaslha

### A.1. yaslha package

Package to handle SLHA-format files and data.

`yaslha.parse(text, input_type='AUTO', parser=None, **kwargs)`

Parse a text to return an SLHA object.

`yaslha.dump(slha, output_type='SLHA', dumper=None, **kwargs)`

Output a dumped string of an SLHA object.

`yaslha.parse_file(path, **kwargs)`

Parse a file to return an SLHA object.

`yaslha.dump_file(data, path, **kwargs)`

Write into a file a dumped string of an SLHA object.

### A.2. yaslha.slha module

Module of SLHA object class.

**class** `yaslha.slha.SLHA`

Bases: `object`

SLHA object, representing a SLHA-format text.

**add\_block**(*obj: Union[Block, InfoBlock, Decay]*) → *None*

Add a block to SLHA file.

The name is automatically detected from the object.

**\_\_getitem\_\_**(*key: Any*) → *Any*

Get values of SLHA object or deeper.

SLHA[str] and SLHA[int] give the specified block and decay block, respectively. For ordinary blocks, further referencing is possible as SLHA[str, \*key], while decay blocks refuse such referencing for safety.

**get**(*\*key, default: Any = None*) → *Any*

Return the value if exists, or default.

**\_\_setitem\_\_**(*key: Any, value: Any*) → *None*

Set a value of SLHA object or deeper.

**\_\_delitem\_\_**(*key: Any*) → *None*

Delete values of SLHA object or deeper.

**normalize**(*blocks: bool = True, decays: bool = True*) → *None*

Normalize the head-lines so that names/pids match the dict keys.

**merge**(*another: yaslha.slha.SLHA*) → *None*

Merge another SLHA data into this object.

### A.3. yaslha.block module

Block-like object of SLHA data.

```
class yaslha.block.GenericBlock
    Bases: typing.Generic

    Block-like object containing comments.

    comment
        Give the interface to comments.

    classmethod new(obj: Union[int, str, yaslha.line.DdecayHeadLine, yaslha.line.BlockHeadLine])
        → Union[yaslha.block.Block, yaslha.block.InfoBlock, yaslha.block.Ddecay]
        Create a GenericBlock object according to the argument.

class yaslha.block.AbsBlock(obj: Union[yaslha.line.BlockHeadLine, str])
    Bases: yaslha.block.GenericBlock

    Abstract class for SLHA blocks.

    name
        Return the name of block (always in upper case).

    q
        Return the Q value.

    __getitem__(key: KT) → Union[VT, Sequence[VT]]
        Return the value corresponding to the key.

    __setitem__(key: KT, value: VT) → None
        Set the value for the key.

    __delitem__(key: KT) → None
        Delete the value for the key.

    update_line(line: LT) → None
        Add the line to the block, overriding if exists.

    keys(sort: bool = False) → Iterator[KT]
        Return the keys.

    __iter__(sort: bool = False) → Iterator[KT]
        Return the keys.

    items(sort: bool = False) → Iterator[Tuple[KT, VT]]
        Return (key, value) tuples.

class yaslha.block.Block(obj: Union[yaslha.line.BlockHeadLine, str])
    Bases: yaslha.block.AbsBlock

    SLHA block that has one value for one key.

    __getitem__(key: Union[None, int, Sequence[int]]) → float
        Return the value corresponding to the key.

    __setitem__(key: Union[None, int, Sequence[int]], value: float) → None
        Set the value for the key.

    __delitem__(key: Union[None, int, Sequence[int]]) → None
        Delete the value for the key.
```

```

update_line(line: yaslha.line.ValueLine) → None
    Add the line to the block, overriding if exists.

merge(another: Union[yaslha.block.Block, yaslha.block.InfoBlock]) → None
    Merge another block.

get(*key, default: T) → Union[float, T]
    Return the value for the key if exists, or default value.

keys(sort: bool = False) → Iterator[Union[None, int, Sequence[int]]]
    Return the keys.

__iter__(sort: bool = False) → Iterator[Union[None, int, Sequence[int]]]
    Return the keys.

items(sort: bool = False) → Iterator[Tuple[Union[None, int, Sequence[int]], float]]
    Return (key, value) tuples.

class yaslha.block.InfoBlock(obj: Union[yaslha.line.BlockHeadLine, str])
    Bases: yaslha.block.AbsBlock

    SLHA block that may have multiple values for one key.

    __getitem__(key: int) → Sequence[str]
        Return the value corresponding to the key.

    __setitem__(key: int, value: Sequence[str]) → None
        Set the value for the key.

    __delitem__(key: int) → None
        Delete the value for the key.

    update_line(line: yaslha.line.InfoLine) → None
        Add the line to the block, overriding if exists.

    append_line(line: yaslha.line.InfoLine) → None
        Add the line, appending to the existing one if exists.

    append(key: int, value: str) → None
        Append the value for the key.

    merge(another: Union[yaslha.block.Block, yaslha.block.InfoBlock]) → None
        Merge another block.

    keys(sort: bool = False) → Iterator[int]
        Return the keys.

    __iter__(sort: bool = False) → Iterator[int]
        Return the keys.

    items(sort: bool = False) → Iterator[Tuple[int, str]]
        Return (key, value) tuples.

class yaslha.block.Decay(obj: Union[yaslha.line.DecayHeadLine, int])
    Bases: yaslha.block.GenericBlock

    Decay block.

    br_normalize_threshold = 1e-06

    pid
        Return the pid of mother particle.

```

**width**  
Return the total width.

**update\_line**(*line: yaslha.line.DdecayLine*) → *None*  
Add the line to the block, overriding if exists.

**br**(\**key*) → *float*  
Return the BR of given channel.

**partial\_width**(\**key*) → *float*  
Return the width of given channel.

**keys**(*sort: bool = False*) → *Iterator[Sequence[int]]*  
Return the keys.

**\_\_iter\_\_**(*sort: bool = False*) → *Iterator[Sequence[int]]*  
Return the keys.

**items\_br**(*sort=False*)  
Return (key, BR) tuples, sorted by the BR.

**items\_partial\_width**(*sort=False*)  
Return (key, width) tuples, sorted by the BR.

**normalize**(*force: bool = False*) → *None*  
Normalize the branching ratios.

This method normalize all the branching ratios so that the sum becomes unity or less. In particular, if *force* is set True, they are normalized so that the sum becomes unity, regardless of the current value.

If *force* is False and the sum is less than one, the branching ratio is not normalized, assuming that some decay channels are not listed. If *force* is False and the sum slightly exceeds the unity, the branching ratios are normalized, while if the excess is larger than **br\_normalize\_threshold**, **ValueError** is raised.

**set\_partial\_width**(\**args*) → *None*  
Update the partial width and recalculate BRs of all channels.

**remove**(\**key*) → *None*  
Remove the channel and recalculate BRs of all the other channels.

## A.4. yaslha.comment module

Module of a class to handle comment interface.

**class** yaslha.comment.**CommentInterface**(*block: GenericBlock[KTG, CT]*)  
Bases: **typing.Generic**

Accessor object to the comments in blocks.

**pre**  
Return pre-comment interface.

**\_\_getitem\_\_**(*key: Union[KTG, typing\_extensions.Literal['head']]*) → *Union[CT, str]*  
Return comment.

**\_\_setitem\_\_**(*key: Union[KTG, typing\_extensions.Literal['head']], value: Union[CT, str, None]*)  
→ *None*  
Set comment.

```
__call__(key: Union[KTG, typing_extensions.Literal['head']], **kw) → Union[CT, str]
    Return comment in specified format.
```

```
class yaslha.comment.PreCommentInterface(block: GenericBlock[KTG, CT])
```

```
Bases: typing.Generic
```

Accessor object to the pre-line comments in blocks.

```
__getitem__(key: Union[KTG, typing_extensions.Literal['head']]) → List[str]
    Return pre-line comment.
```

```
__setitem__(key: Union[KTG, typing_extensions.Literal['head']], value: Optional[List[str]]) →
    None
    Set pre-line comment.
```

```
__call__(key: Union[KTG, typing_extensions.Literal['head']], **kw) → List[str]
    Return pre-line comment in specified format.
```

## A.5. yaslha.line module

Module to describe each type of lines.

The line hierarchy is given by:

- AbsLine - BlockHeadLine - DecayHeadLine - InfoLine - ValueLine
  - NoIndexLine
  - OneIndexLine
  - TwoIndexLine
  - ThreeIndexLine
  - DecayLine
  - CommentLine

```
class yaslha.line.LineOutputOption
```

```
Bases: object
```

Class to hold all the options on dumping lines.

```
class yaslha.line.AbsLine(**kwargs)
```

```
Bases: object
```

Abstract class for SLHA-line like objects.

```
output_option = <yaslha.line.LineOutputOption object>
```

```
classmethod pattern() → Pattern[str]
    Return a regexp pattern matching a SLHA line for the type.
```

```
classmethod construct(line: str) → Optional[LT]
    Construct an object from a line if it matches the pattern.
```

```
to_slha(option: Optional[yaslha.line.LineOutputOption] = None) → List[str]
    Return the lines for SLHA-format, including pre-comments.
```

```
dump() → List[Union[str, float]]
    Return a list representing the line.
```



```

classmethod from_dump(dump: Sequence[Any], **kw) → LT
    Return an object from dumped value.

class yaslha.line.BlockHeadLine(name, q=None, comment=None)
    Bases: yaslha.line.AbsLine
    Line for block header.

    name
        Return name in upper case.

class yaslha.line.DecayHeadLine(pid: Union[str, int], width: Union[str, float], comment:
    Optional[str] = None)
    Bases: yaslha.line.AbsLine
    A line with format ('DECAY', 1x, I9, 3x, 1P, E16.8, 0P, 3x, '#', 1x, A).

class yaslha.line.InfoLine(key, value, comment=None)
    Bases: yaslha.line.AbsLine
    Class for lines of INFO blocks.

    An info-block line is given by format(1x, I5, 3x, A), which is not exclusive and matches other
    patterns. This class accept multi-lines, and thus values are List[str] and comments are multi-
    lined string, internally kept as List[str].

class yaslha.line.ValueLine(key: Union[None, int, Sequence[int]], value: Union[str, float],
    comment: Optional[str] = None)
    Bases: yaslha.line.AbsLine
    Abstract class for value lines in ordinary blocks.

    classmethod new(key: Union[None, int, Sequence[int]], value: Union[str, float], comment:
    Optional[str] = None) → LT2
        Construct line object according to the type of key.

        The resulting object is an instance of a subclass of ValueLine but not DecayLine.

class yaslha.line.NoIndexLine(value, comment=None)
    Bases: yaslha.line.ValueLine
    A line with format(9x, 1P, E16.8, 0P, 3x, '#', 1x, A).

class yaslha.line.OneIndexLine(i, value, comment=None)
    Bases: yaslha.line.ValueLine
    A line with format(1x, I5, 3x, 1P, E16.8, 0P, 3x, '#', 1x, A).

class yaslha.line.TwoIndexLine(i1, i2, value, comment=None)
    Bases: yaslha.line.ValueLine
    A line with format(1x, I2, 1x, I2, 3x, 1P, E16.8, 0P, 3x, '#', 1x, A).

class yaslha.line.ThreeIndexLine(i1, i2, i3, value, comment=None)
    Bases: yaslha.line.ValueLine
    A line with format(1x, I2, 1x, I2, 1x, I2, 3x, 1P, E16.8, 0P, 3x, '#', 1x, A).

class yaslha.line.DecayLine(br, channel, nda=None, comment=None)
    Bases: yaslha.line.ValueLine
    A decay line (3x, 1P, E16.8, 0P, 3x, I2, 3x, N (I9, 1x), 2x, '#', 1x, A).

    br
        Return the branching ratio.

```

```
class yaslha.line.CommentLine(comment: Optional[str] = None)
```

Bases: `yaslha.line.AbsLine`

Comment line.

This object is prepared for compatibility and not intended to be inserted in blocks or decay-blocks; therefore dumping methods are not implemented.

## A.6. yaslha.parser module

Parsers for SLHA package.

Parsers for SLHA-format, JSON-format, and YAML-format are provided.

```
class yaslha.parser.SLHAParser(**kw)
```

Bases: `object`

SLHA-format file parser.

```
parse(text: str) → yaslha.slha.SLHA
```

Parse SLHA format text and return SLHA object.

## A.7. yaslha.dumper module

Dumpers to write SLHA data in various format.

```
class yaslha.dumper.BlocksOrder
```

Bases: `enum.Enum`

Options for block ordering.

**DEFAULT** = 0

**KEEP** = 1

**ABC** = 2

```
class yaslha.dumper.ValuesOrder
```

Bases: `enum.Enum`

Options for value ordering.

**DEFAULT** = 0

**KEEP** = 1

**SORTED** = 2

```
class yaslha.dumper.CommentsPreserve
```

Bases: `enum.Enum`

Options for comment handling.

**NONE** = 0

**TAIL** = 1

**ALL** = 2

**keep\_line**

Return if to keep line-level comments.

```

keep_tail
    Return if to keep tail comments of value lines.

class yaslha.dumper.AbsDumper(**kw)
    Bases: object

    Abstract class for YASLHA dumpers.

    config(k: str) → Any
        Get a current value of configuration.

    set_config(k: str, v: Any) → None
        Set configuration.

    dump(slha: yaslha.slha.SLHA) → str
        Return dumped string of an SLHA object.

class yaslha.dumper.SLHADumper(**kw)
    Bases: yaslha.dumper.AbsDumper

    A dumper class for SLHA output.

    config(k: str) → Any
        Get a current value of configuration.

    set_config(k: str, v: Any) → None
        Set configuration.

    dump(slha: yaslha.slha.SLHA) → str
        Return SLHA-format text of an SLHA object.

    dump_block(block, document_block=False)
        Return SLHA-format text of a block.

class yaslha.dumper.AbsMarshalDumper(**kw)
    Bases: yaslha.dumper.AbsDumper

    An abstract class for dumpers handling marshaled data.

    SCHEME_VERSION = 3

    config(k: str) → Any
        Get a current value of configuration.

    set_config(k: str, v: Any) → None
        Set configuration.

    marshal(slha)
        Return Marshaled object of an SLHA object.

    marshal_block(block: Union[yaslha.block.Block, yaslha.block.InfoBlock, yaslha.block.Decay])
        → Mapping[str, Any]
        Return marshaled object of a block.

class yaslha.dumper.YAMLDumper(**kw)
    Bases: yaslha.dumper.AbsMarshalDumper

    A dumper for YAML output.

    dump(slha: yaslha.slha.SLHA) → str
        Return YAML-format text of an SLHA object.

```

```
class yaslha.dumper.JSONDumper(**kw)
    Bases: yaslha.dumper.AbsMarshalDumper

    A dumper for JSON output.

    dump(slhs: yaslha.slhs.SLHA) → str
        Return JSON-format text of an SLHA object.
```

## A.8. yaslha.script module

Scripts of this package.

## A.9. yaslha.config module

Configuration handlers.

```
class yaslha.config.SectionWrapper(data: configparser.SectionProxy)
    Bases: object

    A wrapper class of configparser.SectionProxy.

    get_enum(key: str, enum_class: Type[EnumType]) → EnumType
        Get an item as an Enum-class object.

    get_list(key: str) → List[str]
        Get a List[str] object.

class yaslha.config.Config
    Bases: configparser.ConfigParser

    Dictionary to store the configurations.
```

## A.10. yaslha.utility module

Utility module.

```
yaslha.utility.sort_blocks_default(block_names: Sequence[str]) → List[str]
    Sort block names according to specified order.

yaslha.utility.sort_pids_default(pids: Sequence[T]) → List[Union[T, int]]
    Sort block names according to specified order.
```

## References

- [1] P. Z. Skands *et al.*, *SUSY Les Houches accord: Interfacing SUSY spectrum calculators, decay packages, and event generators*, **JHEP** **07** (2004) 036 [[hep-ph/0311123](#)].
- [2] B. C. Allanach *et al.*, *SUSY Les Houches Accord 2*, **Comput. Phys. Commun.** **180** (2009) 8–25 [[arXiv:0801.0045](#)].
- [3] F. Mahmoudi *et al.*, *Flavour Les Houches Accord: Interfacing Flavour related Codes*, **Comput. Phys. Commun.** **183** (2012) 285–298 [[arXiv:1008.0762](#)].

## Python Module Index

### y

yaslha, [4](#)  
yaslha.block, [5](#)  
yaslha.comment, [7](#)  
yaslha.config, [12](#)  
yaslha.dumper, [10](#)  
yaslha.line, [8](#)  
yaslha.parser, [10](#)  
yaslha.script, [12](#)  
yaslha.slha, [4](#)  
yaslha.utility, [12](#)

## Index

\_\_call\_\_() (yaslha.comment.CommentInterface method), 7  
 \_\_call\_\_() (yaslha.comment.PreCommentInterface method), 8  
 \_\_delitem\_\_() (yaslha.block.AbsBlock method), 5  
 \_\_delitem\_\_() (yaslha.block.Block method), 5  
 \_\_delitem\_\_() (yaslha.block.InfoBlock method), 6  
 \_\_delitem\_\_() (yaslha.slha.SLHA method), 4  
 \_\_getitem\_\_() (yaslha.block.AbsBlock method), 5  
 \_\_getitem\_\_() (yaslha.block.Block method), 5  
 \_\_getitem\_\_() (yaslha.block.InfoBlock method), 6  
 \_\_getitem\_\_() (yaslha.comment.CommentInterface method), 7  
 \_\_getitem\_\_() (yaslha.comment.PreCommentInterface method), 8  
 \_\_getitem\_\_() (yaslha.slha.SLHA method), 4  
 \_\_iter\_\_() (yaslha.block.AbsBlock method), 5  
 \_\_iter\_\_() (yaslha.block.Block method), 6  
 \_\_iter\_\_() (yaslha.block.Decay method), 7  
 \_\_iter\_\_() (yaslha.block.InfoBlock method), 6  
 \_\_setitem\_\_() (yaslha.block.AbsBlock method), 5  
 \_\_setitem\_\_() (yaslha.block.Block method), 5  
 \_\_setitem\_\_() (yaslha.block.InfoBlock method), 6  
 \_\_setitem\_\_() (yaslha.comment.CommentInterface method), 7  
 \_\_setitem\_\_() (yaslha.comment.PreCommentInterface method), 8  
 \_\_setitem\_\_() (yaslha.slha.SLHA method), 4  
  
 ABC (yaslha.dumper.BlocksOrder attribute), 10  
 AbsBlock (class in yaslha.block), 5  
 AbsDumper (class in yaslha.dumper), 11  
 AbsLine (class in yaslha.line), 8  
 AbsMarshalDumper (class in yaslha.dumper), 11  
 add\_block() (yaslha.slha.SLHA method), 4  
 ALL (yaslha.dumper.CommentsPreserve attribute), 10  
 append() (yaslha.block.InfoBlock method), 6  
 append\_line() (yaslha.block.InfoBlock method), 6  
  
 Block (class in yaslha.block), 5  
 BlockHeadLine (class in yaslha.line), 9  
 BlocksOrder (class in yaslha.dumper), 10  
 br (yaslha.line.DecayLine attribute), 9  
 br() (yaslha.block.Decay method), 7  
 br\_normalize\_threshold (yaslha.block.Decay attribute), 6  
  
 comment (yaslha.block.GenericBlock attribute), 5  
 CommentInterface (class in yaslha.comment), 7  
 CommentLine (class in yaslha.line), 10  
 CommentsPreserve (class in yaslha.dumper), 10  
 Config (class in yaslha.config), 12  
 config() (yaslha.dumper.AbsDumper method), 11  
 config() (yaslha.dumper.AbsMarshalDumper method), 11  
 config() (yaslha.dumper.SLHADumper method), 11  
 construct() (yaslha.line.AbsLine class method), 8  
  
 Decay (class in yaslha.block), 6  
 DecayHeadLine (class in yaslha.line), 9

```

DecayLine (class in yaslha.line), 9
DEFAULT (yaslha.dumper.BlocksOrder attribute), 10
DEFAULT (yaslha.dumper.ValuesOrder attribute), 10
dump() (in module yaslha), 4
dump() (yaslha.dumper.AbsDumper method), 11
dump() (yaslha.dumper.JSONDumper method), 12
dump() (yaslha.dumper.SLHADumper method), 11
dump() (yaslha.dumper.YAMLDumper method), 11
dump() (yaslha.line.AbsLine method), 8
dump_block() (yaslha.dumper.SLHADumper method), 11
dump_file() (in module yaslha), 4

from_dump() (yaslha.line.AbsLine class method), 8

GenericBlock (class in yaslha.block), 5
get() (yaslha.block.Block method), 6
get() (yaslha.slha.SLHA method), 4
get_enum() (yaslha.config.SectionWrapper method), 12
get_list() (yaslha.config.SectionWrapper method), 12

InfoBlock (class in yaslha.block), 6
InfoLine (class in yaslha.line), 9
items() (yaslha.block.AbsBlock method), 5
items() (yaslha.block.Block method), 6
items() (yaslha.block.InfoBlock method), 6
items_br() (yaslha.block.Decay method), 7
items_partial_width() (yaslha.block.Decay method), 7

JSONDumper (class in yaslha.dumper), 11

KEEP (yaslha.dumper.BlocksOrder attribute), 10
KEEP (yaslha.dumper.ValuesOrder attribute), 10
keep_line (yaslha.dumper.CommentsPreserve attribute), 10
keep_tail (yaslha.dumper.CommentsPreserve attribute), 10
keys() (yaslha.block.AbsBlock method), 5
keys() (yaslha.block.Block method), 6
keys() (yaslha.block.Decay method), 7
keys() (yaslha.block.InfoBlock method), 6

LineOutputOption (class in yaslha.line), 8

marshal() (yaslha.dumper.AbsMarshalDumper method), 11
marshal_block() (yaslha.dumper.AbsMarshalDumper method), 11
merge() (yaslha.block.Block method), 6
merge() (yaslha.block.InfoBlock method), 6
merge() (yaslha.slha.SLHA method), 4

name (yaslha.block.AbsBlock attribute), 5
name (yaslha.line.BlockHeadLine attribute), 9
new() (yaslha.block.GenericBlock class method), 5
new() (yaslha.line.ValueLine class method), 9
NoIndexLine (class in yaslha.line), 9
NONE (yaslha.dumper.CommentsPreserve attribute), 10
normalize() (yaslha.block.Decay method), 7

```



normalize() (yaslha.slha.SLHA method), 4  
 OneIndexLine (class in yaslha.line), 9  
 output\_option (yaslha.line.AbsLine attribute), 8  
 parse() (in module yaslha), 4  
 parse() (yaslha.parser.SLHAParser method), 10  
 parse\_file() (in module yaslha), 4  
 partial\_width() (yaslha.block.Decay method), 7  
 pattern() (yaslha.line.AbsLine class method), 8  
 pid (yaslha.block.Decay attribute), 6  
 pre (yaslha.comment.CommentInterface attribute), 7  
 PreCommentInterface (class in yaslha.comment), 8  
 q (yaslha.block.AbsBlock attribute), 5  
 remove() (yaslha.block.Decay method), 7  
 SCHEME\_VERSION (yaslha.dumper.AbsMarshalDumper attribute), 11  
 SectionWrapper (class in yaslha.config), 12  
 set\_config() (yaslha.dumper.AbsDumper method), 11  
 set\_config() (yaslha.dumper.AbsMarshalDumper method), 11  
 set\_config() (yaslha.dumper.SLHADumper method), 11  
 set\_partial\_width() (yaslha.block.Decay method), 7  
 SLHA (class in yaslha.slha), 4  
 SLHADumper (class in yaslha.dumper), 11  
 SLHAParser (class in yaslha.parser), 10  
 sort\_blocks\_default() (in module yaslha.utility), 12  
 sort\_pids\_default() (in module yaslha.utility), 12  
 SORTED (yaslha.dumper.ValuesOrder attribute), 10  
 TAIL (yaslha.dumper.CommentsPreserve attribute), 10  
 ThreeIndexLine (class in yaslha.line), 9  
 to\_slha() (yaslha.line.AbsLine method), 8  
 TwoIndexLine (class in yaslha.line), 9  
 update\_line() (yaslha.block.AbsBlock method), 5  
 update\_line() (yaslha.block.Block method), 5  
 update\_line() (yaslha.block.Decay method), 7  
 update\_line() (yaslha.block.InfoBlock method), 6  
 ValueLine (class in yaslha.line), 9  
 ValuesOrder (class in yaslha.dumper), 10  
 width (yaslha.block.Decay attribute), 6  
 YAMLDumper (class in yaslha.dumper), 11  
 yaslha (module), 4  
 yaslha.block (module), 5  
 yaslha.comment (module), 7  
 yaslha.config (module), 12  
 yaslha.dumper (module), 10  
 yaslha.line (module), 8  
 yaslha.parser (module), 10  
 yaslha.script (module), 12  
 yaslha.slha (module), 4  
 yaslha.utility (module), 12