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 AHELP for CIAO 3.4

## get\_stackexpr

Context: [sherpa](#)

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### Synopsis

Module functions to retrieve a model stack expression.

### Syntax

```
String_Type get_source_expr([Integer_Type])
String_Type get_bg_expr([Integer_Type])
String_Type get_inst_expr([Integer_Type])
String_Type get_sinst_expr([Integer_Type])
String_Type get_binst_expr([Integer_Type])

Error Return Value: NULL

Arguments:

(1) Dataset number (default 1)
```

### Description

These functions get model stack expressions; `get_sinst_expr` and `get_binst_expr` get instrument model stack expressions for the source dataset only, and the background dataset only, respectively.

See the related Sherpa commands `SOURCE`, `BACKGROUND`, and `INSTRUMENT` for more information.

### Example 1

Specify the source model stack expression for dataset 3, then retrieve it:

```
sherpa> PARAMPROMPT OFF
sherpa> GAUSS[g]
sherpa> POW[p]
sherpa> () = set_source_expr(3,"p+g")
sherpa> get_source_expr(3)
(p + g)
```

## Example 2

Specify and retrieve a source model stack expression for dataset 1:

```
sherpa> () = set_source_expr("xswabs[xsl]*(pow[p]+gauss[g])")
sherpa> get_source_expr()
(xsl * (p + g))
```

## Bugs

See the [Sherpa bug pages](#) online for an up-to-date listing of known bugs.

## See Also

*sherpa*

[autoest](#), [background](#), [create](#), [create\\_model](#), [createparamset](#), [fit](#), [freeze](#), [get\\_defined\\_models](#),  
[get\\_model\\_params](#), [get\\_models](#), [get\\_num\\_par](#), [get\\_par](#), [getx](#), [gety](#), [guess](#), [instrument](#), [integrate](#),  
[is\\_paramset](#), [jointmode](#), [kernel](#), [lineid](#), [linkparam](#), [mdl](#), [modeexpr](#), [modelstack](#), [nestedmodel](#), [noise](#),  
[paramprompt](#), [paramset](#), [pileup](#), [rename](#), [run\\_fit](#), [set\\_par](#), [set\\_paramset](#), [set\\_stackexpr](#), [source](#), [thaw](#),  
[truncate](#), [unlink](#)

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URL:  
[http://cxc.harvard.edu/ciao3.4/get\\_stackexpr.html](http://cxc.harvard.edu/ciao3.4/get_stackexpr.html)  
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