

```

/*****
*****
* Instrument: nse_simple
*
* %I
* Written by: Erik B Knudsen <erkn@fysik,dtu.dk>
* Date: TODAY
* Origin: ERICE
* %INSTRUMENT_SITE: Templates
*
* Very simple NSE-instrument example
*
* %D
* <instrument description>
*
* Example: <parameters=values>
*
* %P
* dB: [T] Field in the scanning coils
* ...
*
* %L
* <reference/HTML link>
*
* %E
*****/
DEFINE INSTRUMENT nse_simple(dB=0)

DECLARE
%{
%}

INITIALIZE
%{
%}

TRACE

COMPONENT origin = Progress_bar()
AT (0, 0, 0) RELATIVE ABSOLUTE

// insert components here (e.g. Insert -> Source -> ...)
COMPONENT source_simple = Source_simple(
    radius=0.05,
    dist=5000,
    focus_xw=0.1,
    focus_yh=0.1,
    lambda0=5,
    dlambd=1,
    gauss=1)
AT (0, 0, 0) RELATIVE PREVIOUS

COMPONENT lmon = L_monitor(xwidth=0.1, yheight=0.1,filename="lmon",
Lmin=0, Lmax=15)
AT(0,0,1e-3) RELATIVE PREVIOUS

COMPONENT set_pol = Set_pol(
    px=1)
AT (0, 0, 1) RELATIVE PREVIOUS

```

```
COMPONENT field1 = Pol_FieldBox(  
    xwidth=0.1,  
    yheight=0.1,  
    zdepth=2,  
    Bx=0,  
    By=2,  
    Bz=0)  
AT (0, 0, 2) RELATIVE PREVIOUS  
  
COMPONENT plmon= PolLambda_monitor(  
mx=1, filename="pmon", xwidth=0.1, yheight=.1, Lmin=3, Lmax=7)  
AT(0,0,2.1) RELATIVE PREVIOUS  
  
COMPONENT field2 = COPY(field1) (By=-2)  
AT(0,0,5) RELATIVE PREVIOUS  
  
COMPONENT field3 = COPY(field1) (By=dB, zdepth=0.05)  
AT(0,0,1) RELATIVE PREVIOUS  
  
COMPONENT polanalyser_ideal = PolAnalyser_ideal(  
    mx=1)  
AT (0, 0, 1) RELATIVE PREVIOUS  
  
COMPONENT detector = COPY(lmon) (filename="lmon2")  
AT(0,0,1) RELATIVE PREVIOUS  
  
FINALLY  
%{  
%}  
  
END
```