Cheat sheet for pst-optexp (v3.1)

```
labeloffset=⟨num⟩
labelstyle=⟨macros⟩
labelalign=⟨refpoint⟩
labelangle=⟨num⟩
labelref=relative, relgrav, global
label=⟨offset⟩[ ⟨angle⟩[ ⟨refpoint⟩[ ⟨labelref⟩]]]
innerlabel=true
position=⟨num⟩, start, end
abspos=⟨num⟩, start, end
endbox=true, false
angle=⟨num⟩
rotateref=⟨refpoint⟩
compshift=⟨num⟩
OptComp⟨psstyle⟩
OptionalStyle⟨psstyle⟩
VariableStyle⟨psstyle⟩
addtoOptComp=⟨list⟩
newOptComp=⟨list⟩
optional=true, false
```

\lens[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
lensheight=⟨num⟩
lensradiusleft=⟨num⟩
lensradiusright=⟨num⟩
lensradius=⟨left⟩[ ⟨right⟩]
lenswidth=⟨num⟩
lens=⟨radiusleft⟩[ ⟨radiusright⟩[ ⟨height⟩[
    ⟨width⟩]]]
thicklens=true, false
```

\optplate[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
plateheight=⟨num⟩
platelinewidth=⟨num⟩ or ⟨dimen⟩
```

\optretplate[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
platewidth=⟨num⟩
platesize=⟨width⟩ ⟨height⟩
```

\pinhole[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
outerheight=⟨num⟩
innerheight=⟨num⟩
phlinewidth=⟨num⟩ or ⟨dimen⟩
```
```
phwidth=⟨num⟩
```

\optbox[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
optboxwidth=⟨num⟩
optboxheight=⟨num⟩
optboxsize=⟨width⟩ ⟨height⟩
```

\crystal[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
crystalwidth=⟨num⟩
crystalheight=⟨num⟩
crystalsize=⟨width⟩ ⟨height⟩
caxislength=⟨num⟩
caxisinv=true, false
voltage=true, false
lamp=true, false
lampscale=⟨num⟩
CrystalCaxis⟨psstyle⟩
CrystalLamp⟨psstyle⟩
```

\optdetector[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
detsize=⟨num⟩ or ⟨width⟩ ⟨height⟩
dettype=round, diode
DetectorStyle⟨psstyle⟩
```

\optdiode[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
optdiodesize=⟨num⟩
```

\doveprism[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
doveprismsize=⟨num⟩ or ⟨width⟩ ⟨height⟩
```

\polarization[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
polsize=⟨num⟩
pollinewidth=⟨num⟩ or ⟨dimen⟩
poltype=parallel, perp, misc, lcirc, rcirc
Polarization⟨psstyle⟩
```

\mirror[⟨opt⟩](⟨in⟩)(⟨center⟩)(⟨out⟩){⟨label⟩}
```
mirrorwidth=⟨num⟩
mirrorlinewidth=⟨num⟩ or ⟨dimen⟩
mirrorradius=⟨num⟩
mirrortype=plain, piezo, extended, semitrans
variable=true, false
mirrordepth=⟨num⟩
ExtendedMirror⟨psstyle⟩
PiezoMirror⟨psstyle⟩
SemitransMirror⟨psstyle⟩
```

\beamsplitter[⟨opt⟩](⟨in⟩)(⟨center⟩)(⟨out⟩){⟨label⟩}
```
bssize=⟨num⟩
bsstyle=cube, plate
```

\optgrating[⟨opt⟩](⟨in⟩)(⟨center⟩)(⟨out⟩){⟨label⟩}
```
gratingwidth=⟨num⟩
gratingheight=⟨num⟩
gratingdepth=⟨num⟩
gratingcount=⟨int⟩
gratingtype=blazed, binary
reverse=true, false
gratinglinewidth=⟨num⟩ or ⟨dimen⟩
```

\optprism[⟨opt⟩](⟨in⟩)(⟨center⟩)(⟨out⟩){⟨label⟩}
```
prismsize=⟨num⟩
prismangle=⟨num⟩
prismalign=auto, center
```

\rightangleprism[⟨opt⟩](⟨in⟩)(⟨center⟩)(⟨out⟩){⟨label⟩}
```
raprismsize=⟨num⟩
```

\pentaprism[⟨opt⟩](⟨in⟩)(⟨center⟩)(⟨out⟩){⟨label⟩}
```
pentaprismsize=⟨num⟩

usefiberstyle=true, false
```

\optfiber[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
fiberloops=⟨int⟩
fiberloopradius=⟨num⟩
fiberloopsep=⟨num⟩
```

\optamp[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
optampsize=⟨num⟩ or ⟨width⟩ ⟨height⟩
```

\optmzm[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
optmzmsize=⟨num⟩ or ⟨width⟩ ⟨height⟩
```

\polcontrol[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
polcontrolsize=⟨num⟩
polcontroltype=linear, triangle
```

\optisolator[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
isolatorsize=⟨num⟩ or ⟨width⟩ ⟨height⟩
IsolatorArrow⟨psstyle⟩
```

\optswitch[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
```
switchsize=⟨num⟩
```

```
    switchstyle=opened, closed

\fiberdelayline[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
  fdlsize=⟨num⟩ or ⟨width⟩ ⟨height⟩
  FdlArrow⟨psstyle⟩

\optfiberpolarizer[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
  fiberpolsize=⟨num⟩ or ⟨width⟩ ⟨height⟩

\optcirculator(⟨left⟩)(⟨right⟩)(⟨bottom⟩){⟨label⟩}
  optcircsize=⟨num⟩
  optcircangleA=⟨num⟩
  optcircangleB=⟨num⟩
  optcircangle=⟨num⟩ ⟨num⟩
  OptCircArrow⟨psstyle⟩

\optcoupler(⟨tl⟩)(⟨bl⟩)(⟨tr⟩)(⟨br⟩){⟨label⟩}
\wdmcoupler(⟨tl⟩)(⟨bl⟩)(⟨r⟩){⟨label⟩}
\wdmsplitter(⟨l⟩)(⟨tr⟩)(⟨br⟩){⟨label⟩}
  couplersize=⟨num⟩ or ⟨width⟩ ⟨height⟩
  couplersep=⟨num⟩
  couplertype=none, ellipse, rectangle, cross
  coupleralign=t, top, b, bottom, c, center
  align=top, bottom, center
  VariableCoupler⟨psstyle⟩

\fiberbox(⟨in⟩)(⟨out⟩){⟨label⟩}
  fiberboxwidth=⟨num⟩
  fiberboxheight=⟨num⟩
  fiberboxsize=⟨width⟩ ⟨height⟩
  fiberboxsepin=⟨num⟩
  fiberboxsepout=⟨num⟩
  fiberboxcount=⟨N⟩x⟨M⟩

\optfilter[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
  filtersize=⟨num⟩
  filtertype=bandpass, bandstop, lowpass,
    highpass
  FilterStyle⟨psstyle⟩

\fibercollimator(⟨in⟩)(⟨A⟩)(⟨B⟩)(⟨out⟩){⟨label⟩}
  fibercolsize=⟨num⟩ or ⟨width⟩ ⟨height⟩
```

```
\oenode{⟨node⟩}{⟨comp⟩}
  namingscheme=old, new
  showoptdots=true, false
  compname=⟨string⟩

\oenodeRefA{⟨comp⟩}
\oenodeRefB{⟨comp⟩}
\oenodeTrefA{⟨comp⟩}
\oenodeTrefB{⟨comp⟩}
\oenodeCenter{⟨comp⟩}
\oenodeLabel{⟨comp⟩}
\oenodeExt{⟨comp⟩}
  extnode=⟨refpoint⟩
  extnodealign=rel, relative, abs, absolute

\oenodeIfc{⟨num⟩}{⟨comp⟩}
\oenodeIn{⟨comp⟩}
\oenodeOut{⟨comp⟩}
\oenodeRotref{⟨comp⟩}
\oenodeBeam{⟨num⟩}
\oenodeBeamUp{⟨num⟩}
\oenodeBeamLow{⟨num⟩}

\drawbeam[⟨options⟩]{⟨obj₁⟩}{⟨obj₂⟩}...
  raytrace=true, false
  useNA=true, false
   n=⟨code⟩
  refractiveindex=⟨code⟩
  beampos=[⟨x⟩ ]⟨y⟩
  beamangle=⟨pscode⟩
  beamalign=rel, relative, abs, absolute
  beaminside=true, false
  beaminsidefirst=true, false
  beaminsidelast=true, false
  allowbeaminside=true, false

\optplane(⟨center⟩)
  beam=true, false
  conn=⟨string⟩
  Beam⟨psstyle⟩
```

```
  addtoBeam=⟨list⟩
  newBeam=⟨list⟩
  ArrowInsideMinLength=⟨pscode⟩
  ArrowInsideMaxLength=⟨pscode⟩

\drawwidebeam[⟨options⟩]{⟨obj₁⟩}{⟨obj₂⟩}...
  beamwidth=⟨pscode⟩
  beamdiv=⟨pscode⟩
  pswarning=true, false
  savebeampoints=true, false, ⟨int⟩
  loadbeampoints=true, false, ⟨int⟩
  savebeam=true, false
  loadbeam=true, false
  startinside=true, false
  stopinside=true, false

\drawfiber[⟨options⟩]{⟨obj₁⟩}{⟨obj₂⟩}...
  fiberalign=rel, relative, center, abs,
    absolute
  fiberangleA=⟨num⟩
  fiberangleB=⟨num⟩
  startnode=auto, N, 1, 2, ...
  stopnode=auto, N, 1, 2, ...
  Fiber⟨psstyle⟩
  addtoFiber=⟨list⟩
  newFiber=⟨list⟩
  fiberstyle=⟨string⟩
  fiber=[*+]none, all, i, o, ⟨refpoint⟩
  \begin{optexp}...\end{optexp}

\backlayer{⟨code⟩}
\frontlayer{⟨code⟩}

\optdipole[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
\opttripole[⟨opt⟩](⟨in⟩)(⟨center⟩)(⟨out⟩){⟨label⟩}
\newOptexpDipole[⟨fixopt⟩]{⟨name⟩}{⟨dftopt⟩}
\newOptexpTripole[⟨fixopt⟩]{⟨name⟩}{⟨dftopt⟩}
\newOptexpFiberDipole[⟨fixopt⟩]{⟨name⟩}{⟨dftopt⟩}

  showifcnodes=true, false
  IfcNodeStyle⟨psstyle⟩
```