

Cheat sheet for pst-optexp (v3.5)

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

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

$\backslash optplate$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
plateheight= $\langle num \rangle$
platelinewidth= $\langle num \rangle$ or $\langle dimen \rangle$

$\backslash optretplate$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
platewidth= $\langle num \rangle$
platesize= $\langle width \rangle$ $\langle height \rangle$

$\backslash pinhole$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
outerheight= $\langle num \rangle$
innerheight= $\langle num \rangle$
phlinewidth= $\langle num \rangle$ or $\langle dimen \rangle$

phwidth= $\langle num \rangle$

$\backslash optbox$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
optboxwidth= $\langle num \rangle$
optboxheight= $\langle num \rangle$
optboxsize= $\langle width \rangle$ $\langle height \rangle$

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

$\backslash optdetector$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
detsize= $\langle num \rangle$ or $\langle width \rangle$ $\langle height \rangle$
dettpe=round, diode
DetectorStyle $\langle psstyle \rangle$

$\backslash optdiode$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
optdiodesize= $\langle num \rangle$

$\backslash doveprism$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
doveprismsize= $\langle num \rangle$ or $\langle width \rangle$ $\langle height \rangle$

$\backslash glanthompson$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
glanthompsonwidth= $\langle num \rangle$
glanthompsonheight= $\langle num \rangle$
glanthompsonsize= $\langle width \rangle$ $\langle height \rangle$
glanthompsongap= $\langle num \rangle$

$\backslash polarization$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
polsize= $\langle num \rangle$
pollinewidth= $\langle num \rangle$ or $\langle dimen \rangle$
poltype=parallel, perp, misc, lcirc, rcirc
Polarization $\langle psstyle \rangle$

$\backslash mirror$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle center \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
mirrorwidth= $\langle num \rangle$
mirrorlinewidth= $\langle num \rangle$ or $\langle dimen \rangle$
mirrorradius= $\langle radius \rangle$ [0]

mirrortype=plain, piezo, extended, semitrans
variable=true, false
mirrordepth= $\langle num \rangle$
ExtendedMirror $\langle psstyle \rangle$
PiezoMirror $\langle psstyle \rangle$
SemitransMirror $\langle psstyle \rangle$

$\backslash beamsplitter$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle center \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
bssize= $\langle num \rangle$
bsstyle=cube, plate

$\backslash optgrating$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle center \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
gratingwidth= $\langle num \rangle$
gratingheight= $\langle num \rangle$
gratingdepth= $\langle num \rangle$
gratingcount= $\langle int \rangle$
gratingtype=blazed, binary
gratingalign=t, top, c, center
reverse=true, false
gratinglinewidth= $\langle num \rangle$ or $\langle dimen \rangle$

$\backslash optprism$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle center \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
prismsize= $\langle num \rangle$
prismangle= $\langle num \rangle$
prismalign=auto, center

$\backslash rightangleprism$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle center \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
raprismsize= $\langle num \rangle$

$\backslash pentaprism$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle center \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
pentaprismsize= $\langle num \rangle$
usefiberstyle=true, false

$\backslash optfiber$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
fiberloops= $\langle int \rangle$
fiberloopradius= $\langle num \rangle$
fiberloopsep= $\langle num \rangle$

$\backslash optamp$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
optampsize= $\langle num \rangle$ or $\langle width \rangle$ $\langle height \rangle$

$\backslash optmzm$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
optmzmsize= $\langle num \rangle$ or $\langle width \rangle$ $\langle height \rangle$

$\backslash polcontrol$ [$\langle opt \rangle$] ($\langle in \rangle$) ($\langle out \rangle$) { $\langle label \rangle$ }
polcontrolsize= $\langle num \rangle$

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polcontroltype=linear, triangle

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

\optswitch[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
  switchsize=⟨num⟩ or ⟨width⟩ ⟨height⟩
  switchstyle=opened, closed

\fiberdelayline[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩}
  fdlsiz=⟨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
  filterangle=⟨num⟩

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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⟩}
\oeBeamVec{⟨num⟩}
\oeBeamVecUp{⟨num⟩}
\oeBeamVecLow{⟨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
  forcebeaminside=true, false

\optplane(⟨center⟩)

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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⟩}
  optdipolesize=⟨width⟩[⟨height⟩]

\newOptexpDipole[⟨fixopt⟩]{⟨name⟩}{⟨dftopt⟩}
\newOptexpTripole[⟨fixopt⟩]{⟨name⟩}{⟨dftopt⟩}
\newOptexpFiberDipole[⟨fixopt⟩]{⟨name⟩}{⟨dftopt⟩}

  showifcnodes=true, false
  IfcNodeStyle⟨psstyle⟩

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