

Cheat sheet for pst-optexp (v3.2)

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

\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

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

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

\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= $\langle num \rangle$

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

\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 $\langle psstyle \rangle$

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

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

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

\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= $\langle num \rangle$

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

\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= $\langle num \rangle$

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

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

\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
reverse=true, false
gratinglinewidth= $\langle num \rangle$ or $\langle dimen \rangle$

\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

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

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

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

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

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

\polcontrol $[\langle opt \rangle] (\langle in \rangle) (\langle out \rangle) \{ \langle label \rangle \}$
polcontrolsize= $\langle num \rangle$
polcontroltype=linear, triangle

<pre> \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⟩} fdsize=⟨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⟩ fiberboxsep=⟨num⟩ fiberboxsepout=⟨num⟩ fiberboxcount=⟨N⟩x⟨M⟩ \optfilter[⟨opt⟩](⟨in⟩)(⟨out⟩){⟨label⟩} filtersize=⟨num⟩ filtertype=bandpass, bandstop, lowpass, highpass FilterStyle⟨psstyle⟩ </pre>	<pre> \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 \optplane(⟨center⟩) beam=true, false </pre>	<pre> 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⟩ </pre>
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