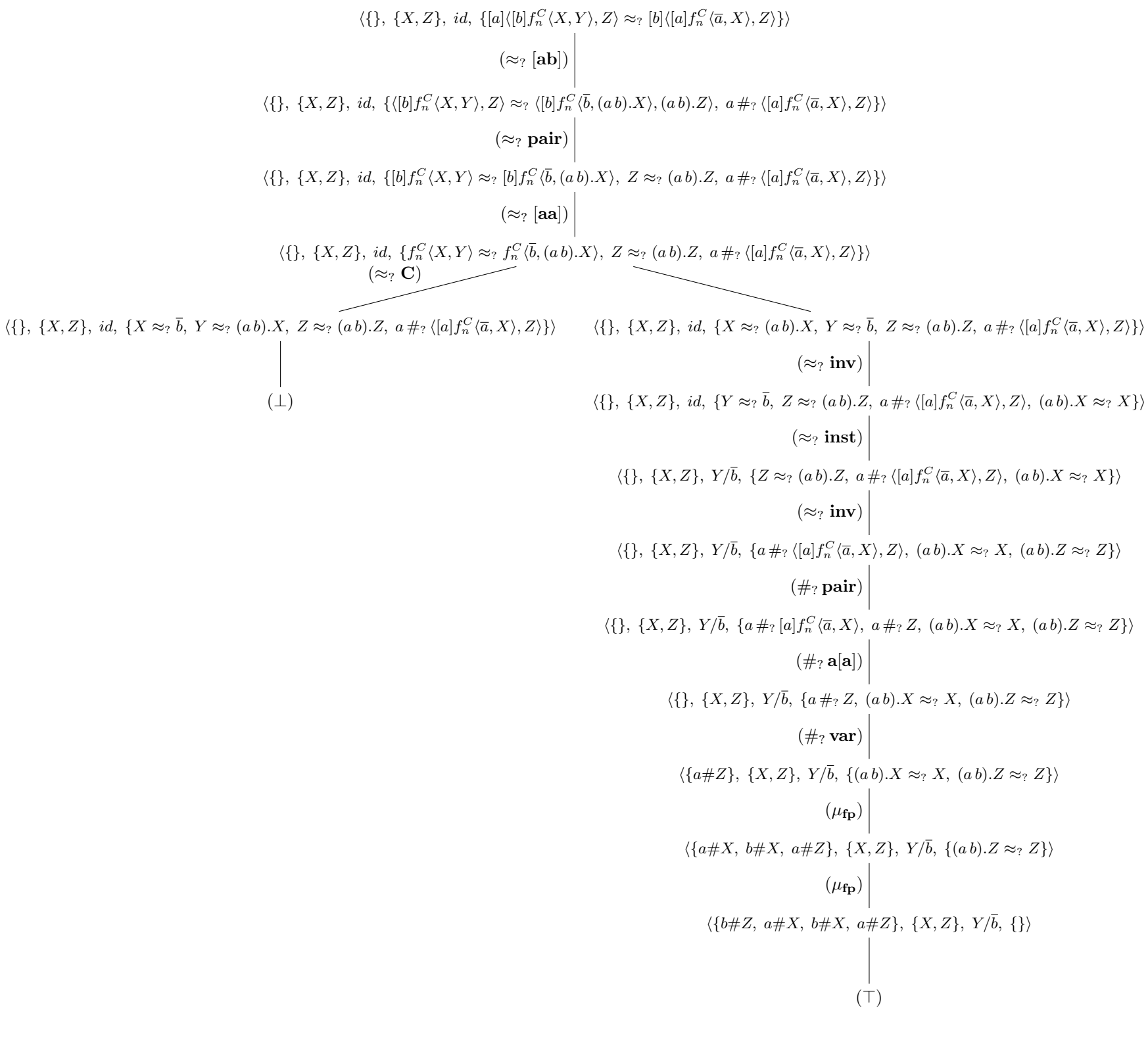
$\langle\{\},\ \{X,Z\},\ id,\ \{[a]\langle[b]f_n^C\langle X,Y\rangle,Z\rangle \approx_? [b]\langle[a]f_n^C\langle\overline{a},X\rangle,Z\rangle\}\rangle$
$(\approx_?\ [\mathbf{ab}])$
$\langle\{\},\ \{X,Z\},\ id,\ \{\langle[b]f_n^C\langle X,Y\rangle,Z\rangle \approx_? \langle[b]f_n^C\langle\overline{b},(a\,b).X\rangle,(a\,b).Z\rangle,\ a\#_?\langle[a]f_n^C\langle\overline{a},X\rangle,Z\rangle\}\rangle$
$(\approx_?\ \mathbf{pair})$
$\langle\{\},\ \{X,Z\},\ id,\ \{[b]f_n^C\langle X,Y\rangle \approx_? [b]f_n^C\langle\overline{b},(a\,b).X\rangle,\ Z\approx_?(a\,b).Z,\ a\#_?\langle[a]f_n^C\langle\overline{a},X\rangle,Z\rangle\}\rangle$
$(\approx_?\ [\mathbf{aa}])$
$\langle\{\},\ \{X,Z\},\ id,\ \{f_n^C\langle X,Y\rangle \approx_? f_n^C\langle\overline{b},(a\,b).X\rangle,\ Z\approx_?(a\,b).Z,\ a\#_?\langle[a]f_n^C\langle\overline{a},X\rangle,Z\rangle\}\rangle$
$(\approx_?\ \mathbf{C})$
$\langle\{\},\ \{X,Z\},\ id,\ \{X\approx_?\overline{b},\ Y\approx_?(a\,b).X,\ Z\approx_?(a\,b).Z,\ a\#_?\langle[a]f_n^C\langle\overline{a},X\rangle,Z\rangle\}\rangle$
$(\bot)$
$\langle\{\},\ \{X,Z\},\ id,\ \{X\approx_?(a\,b).X,\ Y\approx_?\overline{b},\ Z\approx_?(a\,b).Z,\ a\#_?\langle[a]f_n^C\langle\overline{a},X\rangle,Z\rangle\}\rangle$
$(\approx_?\ \mathbf{inv})$
$\langle\{\},\ \{X,Z\},\ id,\ \{Y\approx_?\overline{b},\ Z\approx_?(a\,b).Z,\ a\#_?\langle[a]f_n^C\langle\overline{a},X\rangle,Z\rangle,\ (a\,b).X\approx_? X\}\rangle$
$(\approx_?\ \mathbf{inst})$
$\langle\{\},\ \{X,Z\},\ Y/\overline{b},\ \{Z\approx_?(a\,b).Z,\ a\#_?\langle[a]f_n^C\langle\overline{a},X\rangle,Z\rangle,\ (a\,b).X\approx_? X\}\rangle$
$(\approx_?\ \mathbf{inv})$
$\langle\{\},\ \{X,Z\},\ Y/\overline{b},\ \{a\#_?\langle[a]f_n^C\langle\overline{a},X\rangle,Z\rangle,\ (a\,b).X\approx_? X,\ (a\,b).Z\approx_? Z\}\rangle$
$(\#_?\ \mathbf{pair})$
$\langle\{\},\ \{X,Z\},\ Y/\overline{b},\ \{a\#_?[a]f_n^C\langle\overline{a},X\rangle,\ a\#_? Z,\ (a\,b).X\approx_? X,\ (a\,b).Z\approx_? Z\}\rangle$
$(\#_?\ \mathbf{a[a]})$
$\langle\{\},\ \{X,Z\},\ Y/\overline{b},\ \{a\#_? Z,\ (a\,b).X\approx_? X,\ (a\,b).Z\approx_? Z\}\rangle$
$(\#_?\ \mathbf{var})$
$\langle\{a\#Z\},\ \{X,Z\},\ Y/\overline{b},\ \{(a\,b).X\approx_? X,\ (a\,b).Z\approx_? Z\}\rangle$
$(\mu_{\mathbf{fp}})$
$\langle\{a\#X,\ b\#X,\ a\#Z\},\ \{X,Z\},\ Y/\overline{b},\ \{(a\,b).Z\approx_? Z\}\rangle$
$(\mu_{\mathbf{fp}})$
$\langle\{b\#Z,\ a\#X,\ b\#X,\ a\#Z\},\ \{X,Z\},\ Y/\overline{b},\ \{\}\rangle$
$(\top)$