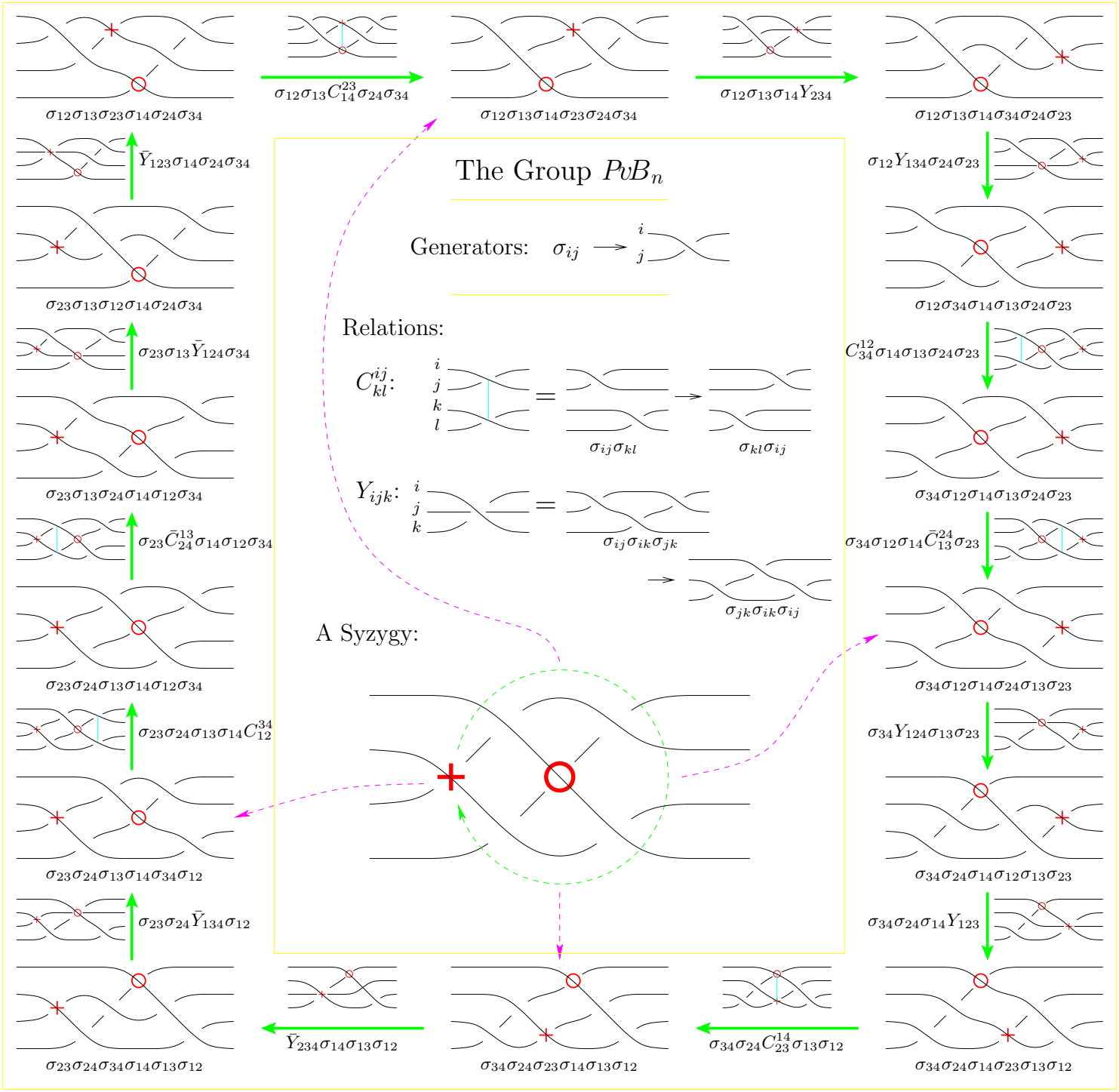
The Group PvB_n
Generators: σ_{ij}
Relations:
C^{ij}_{kl}:
$\sigma_{ij}\sigma_{kl}$
$\sigma_{kl}\sigma_{ij}$
Y_{ijk}:
$\sigma_{ij}\sigma_{ik}\sigma_{jk}$
$\sigma_{jk}\sigma_{ik}\sigma_{ij}$
A Syzygy:
$\sigma_{12}\sigma_{13}\sigma_{23}\sigma_{14}\sigma_{24}\sigma_{34}$
$\sigma_{12}\sigma_{13}C^{23}_{14}\sigma_{24}\sigma_{34}$
$\sigma_{12}\sigma_{13}\sigma_{14}\sigma_{23}\sigma_{24}\sigma_{34}$
$\sigma_{12}\sigma_{13}\sigma_{14}Y_{234}$
$\sigma_{12}\sigma_{13}\sigma_{14}\sigma_{34}\sigma_{24}\sigma_{23}$
$\sigma_{12}Y_{134}\sigma_{24}\sigma_{23}$
$\sigma_{12}\sigma_{34}\sigma_{14}\sigma_{13}\sigma_{24}\sigma_{23}$
$C^{12}_{34}\sigma_{14}\sigma_{13}\sigma_{24}\sigma_{23}$
$\sigma_{34}\sigma_{12}\sigma_{14}\sigma_{13}\sigma_{24}\sigma_{23}$
$\sigma_{34}\sigma_{12}\sigma_{14}\bar{C}^{24}_{13}\sigma_{23}$
$\sigma_{34}\sigma_{12}\sigma_{14}\sigma_{24}\sigma_{13}\sigma_{23}$
$\sigma_{34}Y_{124}\sigma_{13}\sigma_{23}$
$\sigma_{34}\sigma_{24}\sigma_{14}\sigma_{12}\sigma_{13}\sigma_{23}$
$\sigma_{34}\sigma_{24}\sigma_{14}Y_{123}$
$\sigma_{34}\sigma_{24}\sigma_{14}\sigma_{23}\sigma_{13}\sigma_{12}$
$\sigma_{34}\sigma_{24}C^{14}_{23}\sigma_{13}\sigma_{12}$
$\sigma_{34}\sigma_{24}\sigma_{23}\sigma_{14}\sigma_{13}\sigma_{12}$
$\bar{Y}_{234}\sigma_{14}\sigma_{13}\sigma_{12}$
$\sigma_{23}\sigma_{24}\sigma_{34}\sigma_{14}\sigma_{13}\sigma_{12}$
$\sigma_{23}\sigma_{24}\bar{Y}_{134}\sigma_{12}$
$\sigma_{23}\sigma_{24}\sigma_{13}\sigma_{14}\sigma_{34}\sigma_{12}$
$\sigma_{23}\sigma_{24}\sigma_{13}\sigma_{14}C^{34}_{12}$
$\sigma_{23}\sigma_{24}\sigma_{13}\sigma_{14}\sigma_{12}\sigma_{34}$
$\sigma_{23}\bar{C}^{13}_{24}\sigma_{14}\sigma_{12}\sigma_{34}$
$\sigma_{23}\sigma_{13}\sigma_{24}\sigma_{14}\sigma_{12}\sigma_{34}$
$\sigma_{23}\sigma_{13}\bar{Y}_{124}\sigma_{34}$
$\sigma_{23}\sigma_{13}\sigma_{12}\sigma_{14}\sigma_{24}\sigma_{34}$
$\bar{Y}_{123}\sigma_{14}\sigma_{24}\sigma_{34}$