# 1 Matrix Structure differential.enocoro.Enocoro, 4 rounds



native

d_variables to the left

long constraints to the top

creating 4-block
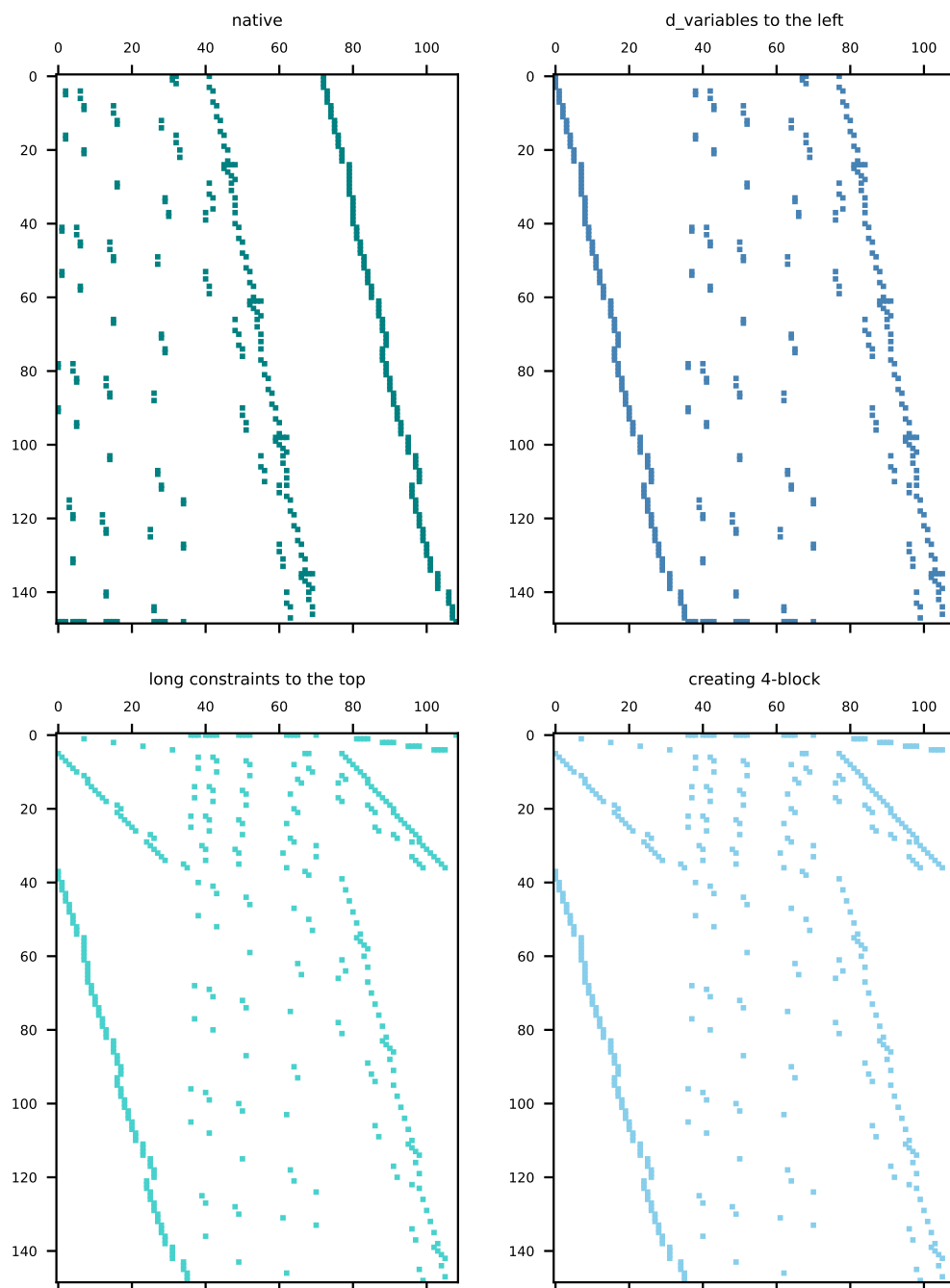
# 2 Constraints

$$x_{31} + x_{32} + x_{41} - 2d_0 \geq 0$$
$$-x_{31} + d_0 \geq 0$$
$$-x_{32} + d_0 \geq 0$$
$$-x_{41} + d_0 \geq 0$$
$$x_2 + x_6 + x_{42} - 2d_1 \geq 0$$
$$-x_2 + d_1 \geq 0$$
$$-x_6 + d_1 \geq 0$$
$$-x_{42} + d_1 \geq 0$$
$$x_7 + x_{15} + x_{43} - 2d_2 \geq 0$$
$$-x_7 + d_2 \geq 0$$
$$-x_{15} + d_2 \geq 0$$
$$-x_{43} + d_2 \geq 0$$
$$x_{16} + x_{28} + x_{44} - 2d_3 \geq 0$$
$$-x_{16} + d_3 \geq 0$$
$$-x_{28} + d_3 \geq 0$$
$$-x_{44} + d_3 \geq 0$$
$$x_2 + x_{32} + x_{45} - 2d_4 \geq 0$$
$$-x_2 + d_4 \geq 0$$
$$-x_{32} + d_4 \geq 0$$
$$-x_{45} + d_4 \geq 0$$
$$x_7 + x_{33} + x_{46} - 2d_5 \geq 0$$
$$-x_7 + d_5 \geq 0$$
$$-x_{33} + d_5 \geq 0$$
$$-x_{46} + d_5 \geq 0$$
$$x_{45} + x_{46} + x_{47} + x_{48} - 3d_7 \geq 0$$
$$-x_{45} + d_7 \geq 0$$
$$-x_{46} + d_7 \geq 0$$
$$-x_{47} + d_7 \geq 0$$
$$-x_{48} + d_7 \geq 0$$
$$x_{16} + x_{41} + x_{47} - 2d_7 \geq 0$$
$$-x_{16} + d_7 \geq 0$$
$$-x_{47} + d_7 \geq 0$$
$$-x_{41} + d_7 \geq 0$$
$$x_{29} + x_{42} + x_{48} - 2d_8 \geq 0$$
$$-x_{29} + d_8 \geq 0$$
$$-x_{48} + d_8 \geq 0$$
$$-x_{42} + d_8 \geq 0$$
$$x_{30} + x_{40} + x_{48} - 2d_8 \geq 0$$
$$-x_{30} + d_8 \geq 0$$
$$-x_{40} + d_8 \geq 0$$
$$-x_{48} + d_8 \geq 0$$

$$x_1 + x_5 + x_{49} - 2d_9 \geq 0$$
$$-x_1 + d_9 \geq 0$$
$$-x_5 + d_9 \geq 0$$
$$-x_{49} + d_9 \geq 0$$
$$x_6 + x_{14} + x_{50} - 2d_{10} \geq 0$$
$$-x_6 + d_{10} \geq 0$$
$$-x_{14} + d_{10} \geq 0$$
$$-x_{50} + d_{10} \geq 0$$
$$x_{15} + x_{27} + x_{51} - 2d_{11} \geq 0$$
$$-x_{15} + d_{11} \geq 0$$
$$-x_{27} + d_{11} \geq 0$$
$$-x_{51} + d_{11} \geq 0$$
$$x_1 + x_{40} + x_{52} - 2d_{12} \geq 0$$
$$-x_1 + d_{12} \geq 0$$
$$-x_{40} + d_{12} \geq 0$$
$$-x_{52} + d_{12} \geq 0$$
$$x_6 + x_{41} + x_{53} - 2d_{13} \geq 0$$
$$-x_6 + d_{13} \geq 0$$
$$-x_{41} + d_{13} \geq 0$$
$$-x_{53} + d_{13} \geq 0$$
$$x_{52} + x_{53} + x_{54} + x_{55} - 3d_{15} \geq 0$$
$$-x_{52} + d_{15} \geq 0$$
$$-x_{53} + d_{15} \geq 0$$
$$-x_{54} + d_{15} \geq 0$$
$$-x_{55} + d_{15} \geq 0$$
$$x_{15} + x_{48} + x_{54} - 2d_{16} \geq 0$$
$$-x_{15} + d_{16} \geq 0$$
$$-x_{54} + d_{16} \geq 0$$
$$-x_{48} + d_{16} \geq 0$$
$$x_{28} + x_{49} + x_{55} - 2d_{17} \geq 0$$
$$-x_{28} + d_{17} \geq 0$$
$$-x_{55} + d_{17} \geq 0$$
$$-x_{49} + d_{17} \geq 0$$
$$x_{29} + x_{50} + x_{55} - 2d_{16} \geq 0$$
$$-x_{29} + d_{16} \geq 0$$
$$-x_{50} + d_{16} \geq 0$$
$$-x_{55} + d_{16} \geq 0$$
$$x_0 + x_4 + x_{56} - 2d_{17} \geq 0$$
$$-x_0 + d_{17} \geq 0$$
$$-x_4 + d_{17} \geq 0$$
$$-x_{56} + d_{17} \geq 0$$
$$x_5 + x_{13} + x_{57} - 2d_{18} \geq 0$$
$$-x_5 + d_{18} \geq 0$$

$$-x_{13} + d_{18} \geq 0$$
$$-x_{57} + d_{18} \geq 0$$
$$x_{14} + x_{26} + x_{58} - 2d_{19} \geq 0$$
$$-x_{14} + d_{19} \geq 0$$
$$-x_{26} + d_{19} \geq 0$$
$$-x_{58} + d_{19} \geq 0$$
$$x_0 + x_{50} + x_{59} - 2d_{20} \geq 0$$
$$-x_0 + d_{20} \geq 0$$
$$-x_{50} + d_{20} \geq 0$$
$$-x_{59} + d_{20} \geq 0$$
$$x_5 + x_{51} + x_{60} - 2d_{21} \geq 0$$
$$-x_5 + d_{21} \geq 0$$
$$-x_{51} + d_{21} \geq 0$$
$$-x_{60} + d_{21} \geq 0$$
$$x_{59} + x_{60} + x_{61} + x_{62} - 3d_{23} \geq 0$$
$$-x_{59} + d_{23} \geq 0$$
$$-x_{60} + d_{23} \geq 0$$
$$-x_{61} + d_{23} \geq 0$$
$$-x_{62} + d_{23} \geq 0$$
$$x_{14} + x_{55} + x_{61} - 2d_{25} \geq 0$$
$$-x_{14} + d_{25} \geq 0$$
$$-x_{61} + d_{25} \geq 0$$
$$-x_{55} + d_{25} \geq 0$$
$$x_{27} + x_{56} + x_{62} - 2d_{26} \geq 0$$
$$-x_{27} + d_{26} \geq 0$$
$$-x_{62} + d_{26} \geq 0$$
$$-x_{56} + d_{26} \geq 0$$
$$x_{28} + x_{60} + x_{62} - 2d_{24} \geq 0$$
$$-x_{28} + d_{24} \geq 0$$
$$-x_{60} + d_{24} \geq 0$$
$$-x_{62} + d_{24} \geq 0$$
$$x_3 + x_{34} + x_{63} - 2d_{25} \geq 0$$
$$-x_{34} + d_{25} \geq 0$$
$$-x_3 + d_{25} \geq 0$$
$$-x_{63} + d_{25} \geq 0$$
$$x_4 + x_{12} + x_{64} - 2d_{26} \geq 0$$
$$-x_4 + d_{26} \geq 0$$
$$-x_{12} + d_{26} \geq 0$$
$$-x_{64} + d_{26} \geq 0$$
$$x_{13} + x_{25} + x_{65} - 2d_{27} \geq 0$$
$$-x_{13} + d_{27} \geq 0$$
$$-x_{25} + d_{27} \geq 0$$
$$-x_{65} + d_{27} \geq 0$$

$$x_{34} + x_{60} + x_{66} - 2d_{28} \geq 0$$
$$-x_{34} + d_{28} \geq 0$$
$$-x_{60} + d_{28} \geq 0$$
$$-x_{66} + d_{28} \geq 0$$
$$x_4 + x_{61} + x_{67} - 2d_{29} \geq 0$$
$$-x_4 + d_{29} \geq 0$$
$$-x_{61} + d_{29} \geq 0$$
$$-x_{67} + d_{29} \geq 0$$
$$x_{66} + x_{67} + x_{68} + x_{69} - 3d_{31} \geq 0$$
$$-x_{66} + d_{31} \geq 0$$
$$-x_{67} + d_{31} \geq 0$$
$$-x_{68} + d_{31} \geq 0$$
$$-x_{69} + d_{31} \geq 0$$
$$x_{13} + x_{62} + x_{68} - 2d_{34} \geq 0$$
$$-x_{13} + d_{34} \geq 0$$
$$-x_{68} + d_{34} \geq 0$$
$$-x_{62} + d_{34} \geq 0$$
$$x_{26} + x_{63} + x_{69} - 2d_{35} \geq 0$$
$$-x_{26} + d_{35} \geq 0$$
$$-x_{69} + d_{35} \geq 0$$
$$-x_{63} + d_{35} \geq 0$$
$$x_0 + x_1 + x_2 + x_4 + x_5 + x_6 + x_7 + x_{13} + x_{14} + x_{15} + x_{16} +$$
$$x_{26} + x_{27} + x_{28} + x_{29} + x_{34} - 1c_{onstant} \geq 0$$