

Equations S6. Power-Law terms in Equations S5.

$$\begin{aligned}
u_{1,2} &= v_{1,2} \times U_1 / X_1 & u_{18,19}^a &= v_{18,19} \times U_{18} / X_{18} \\
u_{2,3}^a &= v_{2,3} \times U_2 / X_2 * & u_{18,19}^b &= v_{18,19} \times U_{15} / X_{15} \\
u_{2,3}^b &= v_{2,3} \times U_{23} / X_{23} & u_{18,19}^c &= v_{18,19} \times (U_{18} U_{15}) / (X_{18} X_{15}) \\
u_{2,3}^c &= v_{2,3} \times (U_2 U_{23}) / (X_2 X_{23}) & u_{18,21} &= v_{18,21} \times U_{18} / X_{18} \\
u_{2,4} &= v_{2,4} \times U_2 / X_2 & u_{19,3} &= v_{19,3} \times U_{19} / X_{19} \\
u_{2,5} &= v_{2,5} \times U_2 / X_2 & u_{19,7} &= v_{19,7} \times U_{19} / X_{19} \\
u_{3,2} &= v_{3,2} \times U_3 / X_3 & u_{19,22} &= v_{19,22} \times U_{19} / X_{19} \\
u_{3,7} &= v_{3,7} \times U_3 / X_3 & u_{20,8} &= v_{20,8} \times U_{20} / X_{20} \\
u_{3,8}^a &= v_{3,8} \times U_3 / X_3 & u_{21,18} &= v_{21,18} \times U_{21} / X_{21} \\
u_{3,8}^b &= v_{3,8} \times U_{15} / X_{15} & u_{22,19} &= v_{22,19} \times U_{22} / X_{22} \\
u_{3,8}^c &= v_{3,8} \times (U_3 U_{15}) / (X_3 X_{15}) & u_{24,12}^a &= v_{24,12} \times U_{24} / X_{24} \\
u_{4,2} &= v_{4,2} \times U_4 / X_4 & u_{24,12}^b &= v_{24,12} \times U_{25} / X_{25} \\
u_{4,17} &= v_{4,17} \times U_4 / X_4 & u_{24,12}^c &= v_{24,12} \times (U_{24} U_{25}) / (X_{24} X_{25}) \\
u_{5,6} &= v_{5,6} \times U_5 / X_5 & u_{25,24} &= v_{25,24} \times U_{25} / X_{25} \\
u_{5,7}^a &= v_{5,7} \times U_5 / X_5 & u_{25,26} &= v_{25,26} \times U_{25} / X_{25} \\
u_{5,7}^b &= v_{5,7} \times U_{23} / X_{23} & u_{26,27} &= v_{26,27} \times U_{26} / X_{26} \\
u_{5,7}^c &= v_{5,7} \times (U_5 U_{23}) / (X_5 X_{23}) & u_{27,28} &= v_{27,28} \times U_{27} / X_{27} \\
u_{6,5} &= v_{6,5} \times U_6 / X_6 & u_{28,29} &= v_{28,29} \times U_{28} / X_{28} \\
u_{6,17} &= v_{6,17} \times U_6 / X_6 & u_{28,179} &= v_{28,179} \times U_{28} / X_{28} \\
u_{7,5} &= v_{7,5} \times U_7 / X_7 & u_{29,30} &= v_{29,30} \times U_{29} / X_{29} \\
u_{7,8}^a &= v_{7,8} \times U_7 / X_7 & u_{30,31} &= v_{30,31} \times U_{30} / X_{30} \\
u_{7,8}^b &= v_{7,8} \times U_{15} / X_{15} & u_{30,33} &= v_{30,33} \times U_{30} / X_{30} \\
u_{7,8}^c &= v_{7,8} \times (U_7 U_{15}) / (X_7 X_{15}) & u_{31,32} &= v_{31,32} \times U_{31} / X_{31} \\
u_{7,143} &= v_{7,143} \times U_7 / X_7 & u_{31,34} &= v_{31,34} \times U_{31} / X_{31} \\
u_{8,3} &= v_{8,3} \times U_8 / X_8 & u_{32,35} &= v_{32,35} \times U_{32} / X_{32} \\
u_{8,7} &= v_{8,7} \times U_8 / X_8 & u_{32,37} &= v_{32,37} \times U_{32} / X_{32} \\
u_{8,18} &= v_{8,18} \times U_8 / X_8 & u_{32,39} &= v_{32,39} \times U_{32} / X_{32} \\
u_{8,20} &= v_{8,20} \times U_8 / X_8 & u_{32,186} &= v_{32,186} \times U_{32} / X_{32} \\
u_{9,10} &= v_{9,10} \times U_9 / X_9 & u_{33,30} &= v_{33,30} \times U_{33} / X_{33} \\
u_{9,15} &= v_{9,15} \times U_9 / X_9 & u_{34,31} &= v_{34,31} \times U_{34} / X_{34} \\
u_{10,156} &= v_{10,156} \times U_{10} / X_{10} & u_{35,32} &= v_{35,32} \times U_{35} / X_{35} \\
u_{11,9} &= v_{11,9} \times U_{11} / X_{11} & u_{35,40} &= v_{35,40} \times U_{35} / X_{35} \\
u_{11,14} &= v_{11,14} \times U_{11} / X_{11} & u_{36,37}^a &= v_{36,37}^a \times U_{36} / X_{36}
\end{aligned}$$

$$\begin{aligned}
u_{12,1} &= v_{12,1} \times U_{12} / X_{12} & u_{36,37}^b &= v_{36,37}^b \times U_{36} / X_{36} \\
u_{12,11} &= v_{12,11} \times U_{12} / X_{12} & u_{36,37}^c &= v_{36,37}^c \times U_{36} / X_{36} \\
u_{12,23}^a &= v_{12,23} \times U_{12} / X_{12} & u_{36,39} &= v_{36,39} \times U_{36} / X_{36} \\
u_{12,23}^b &= v_{12,23} \times (U_{24} / X_{24}) & u_{38,25} &= v_{38,25} \times U_{38} / X_{38} \\
u_{12,23}^c &= v_{12,23} \times (U_{12} U_{24}) / (X_{12} X_{24}) & u_{40,35} &= v_{40,35} \times U_{40} / X_{40} \\
u_{12,148} &= v_{12,148} \times U_{12} / X_{12} & u_{40,39} &= v_{40,39} \times U_{40} / X_{40} \\
u_{14,142} &= v_{14,142} \times U_{14} / X_{14} & u_{125,38} &= v_{125,38} \times U_{125} / X_{125} \\
u_{14,145} &= v_{14,145} \times U_{14} / X_{14} & u_{124,25} &= v_{124,25} \times U_{124} / X_{124} \\
u_{15,144} &= v_{15,144} \times U_{15} / X_{15} & u_{137,13} &= v_{137,13} \times U_{137} / X_{137} \\
u_{18,3} &= v_{18,3} \times U_{18} / X_{18} & u_{147,16} &= v_{147,16} \times U_{147} / X_{147} \\
u_{18,7} &= v_{18,7} \times U_{18} / X_{18} & v_{158,12} &= v_{158,12} \times U_{158} / X_{158}
\end{aligned}$$

(*) A superscript indicates deviations from the total pools.