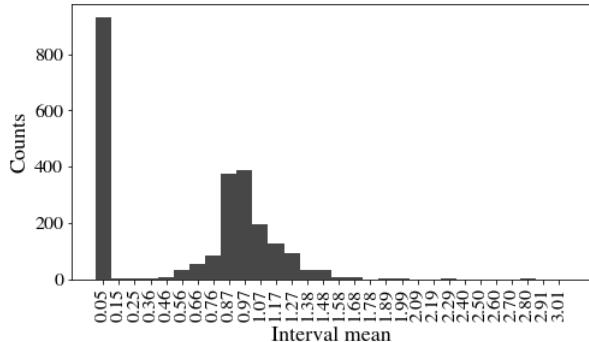


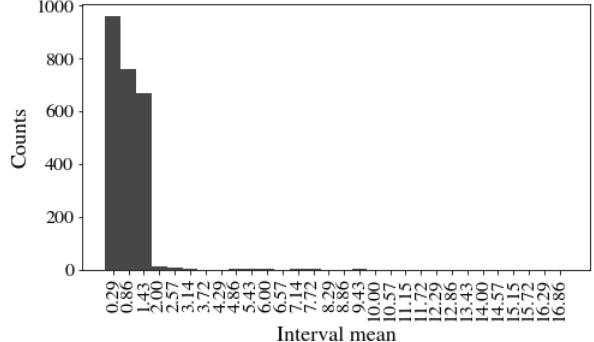
## **Apéndice D: Histogramas de los datos de entrada de las Redes Neuronales Artificiales**

## D.1 Red Neuronal Artificial de 4 sitios

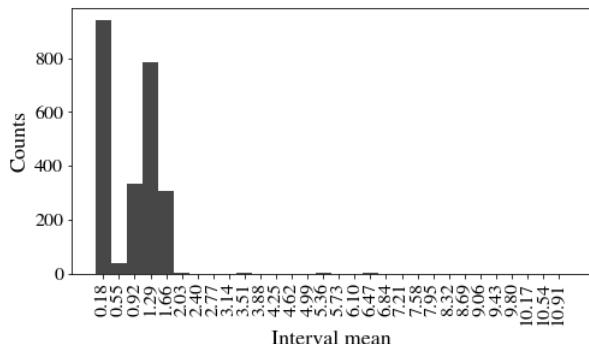
### D.1.1 Factores geométricos



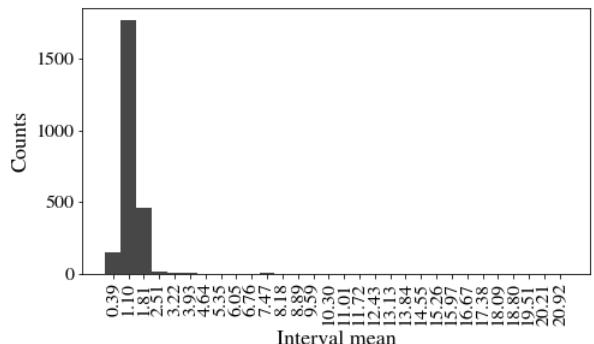
$$x_1^* : \frac{r_1}{r_2} = 0.68 \pm 1.23$$



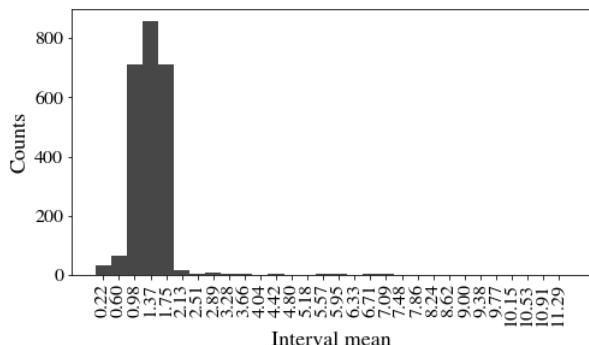
$$x_2^* : \frac{r_1}{r_3} = 1.08 \pm 8.88$$



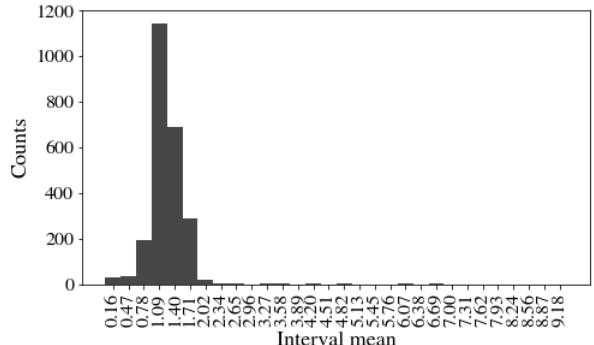
$$x_3^* : \frac{r_1}{r_4} = 1.16 \pm 7.17$$



$$x_4^* : \frac{r_2}{r_3} = 1.54 \pm 10.44$$

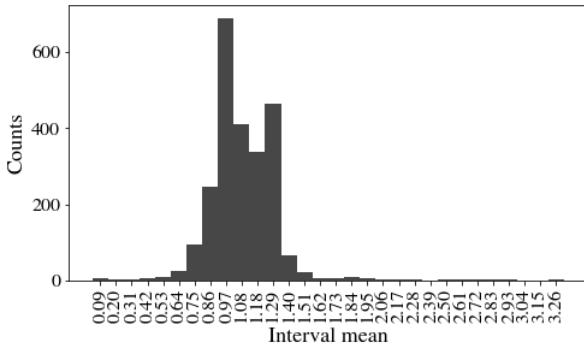


$$x_5^* : \frac{r_2}{r_4} = 1.63 \pm 5.70$$

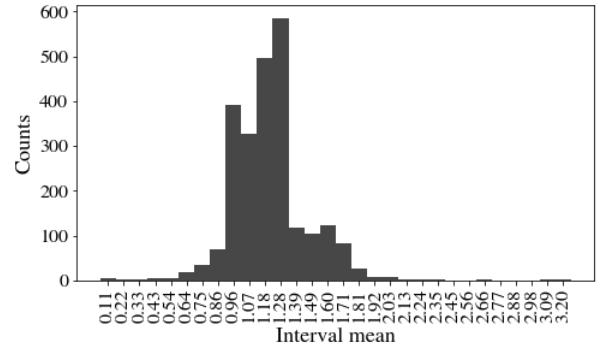


$$x_6^* : \frac{r_3}{r_4} = 1.37 \pm 4.22$$

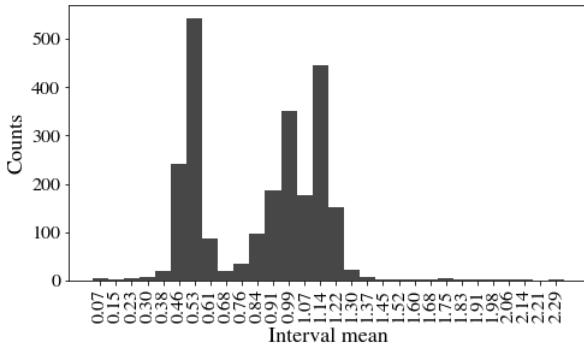
### D.1.2 Factores de empaquetamiento



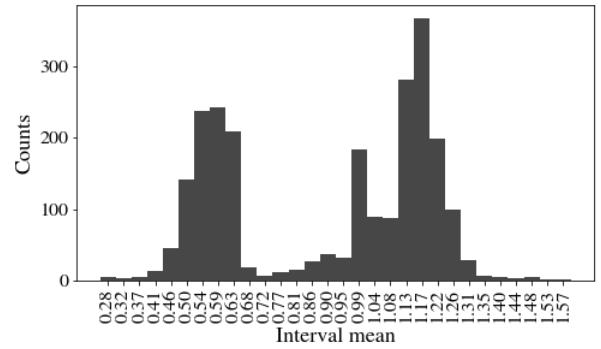
$$x_7^* : \frac{r_1+r_2}{r_1+r_3} = 1.14 \pm 1.15$$



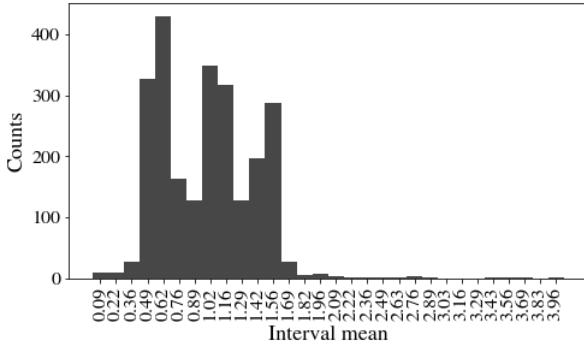
$$x_8^* : \frac{r_1+r_2}{r_1+r_4} = 1.27 \pm 1.38$$



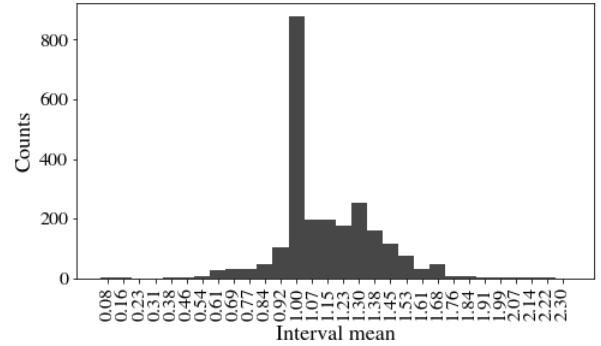
$$x_9^* : \frac{r_1+r_2}{r_2+r_3} = 0.87 \pm 0.73$$



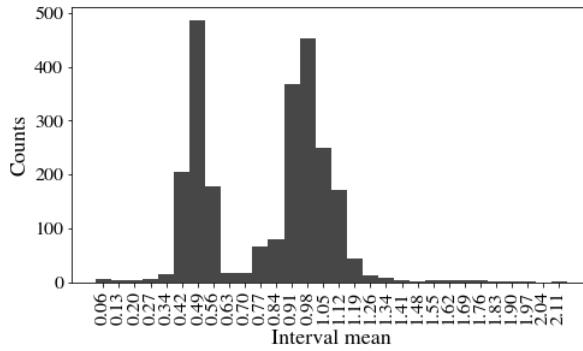
$$x_{10}^* : \frac{r_1+r_2}{r_2+r_4} = 0.92 \pm 0.34$$



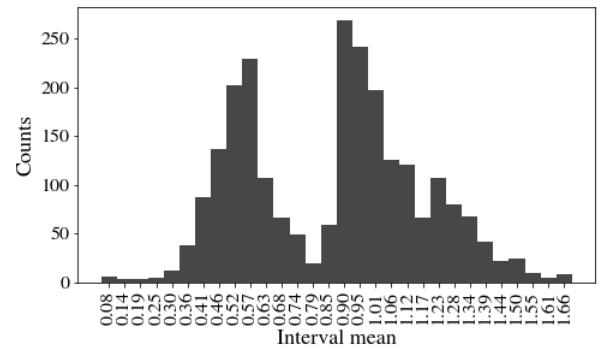
$$x_{11}^* : \frac{r_1+r_2}{r_3+r_4} = 1.06 \pm 1.67$$



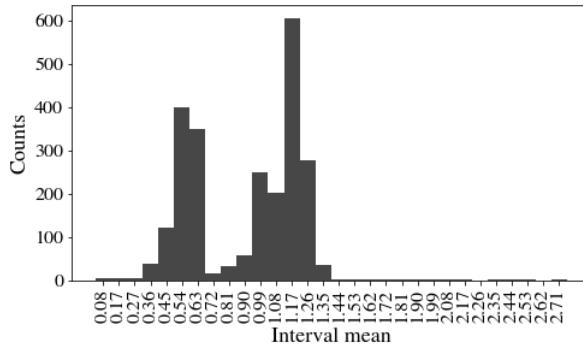
$$x_{12}^* : \frac{r_1+r_3}{r_1+r_4} = 1.17 \pm 0.70$$



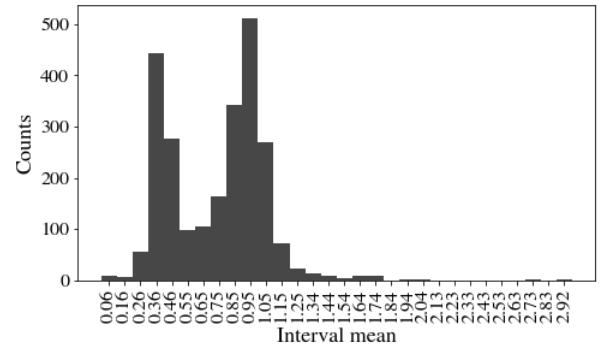
$$x_{13} : \frac{r_1+r_3}{r_2+r_3} = 0.82 \pm 0.71$$



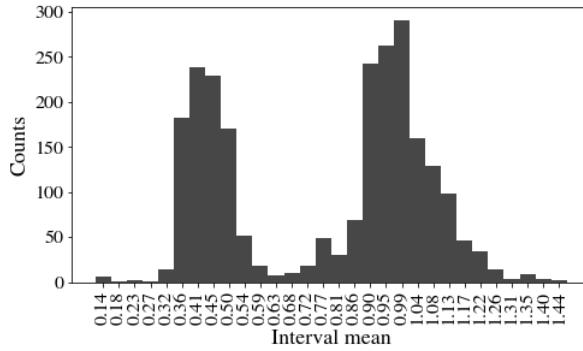
$$x_{14}^* : \frac{r_1+r_3}{r_2+r_4} = 0.88 \pm 0.42$$



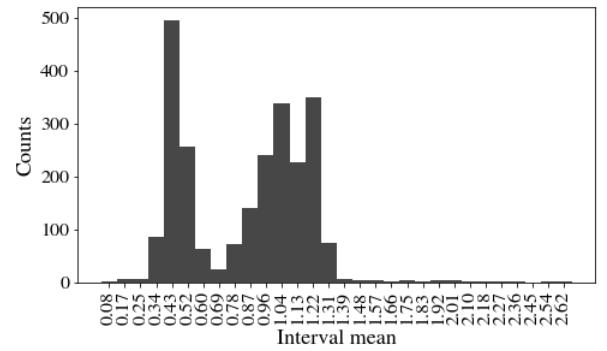
$$x_{15} : \frac{r_1+r_3}{r_3+r_4} = 0.96 \pm 1.08$$



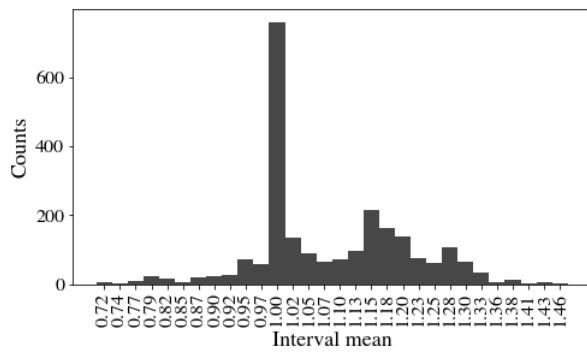
$$x_{16} : \frac{r_1+r_4}{r_2+r_3} = 0.77 \pm 1.18$$



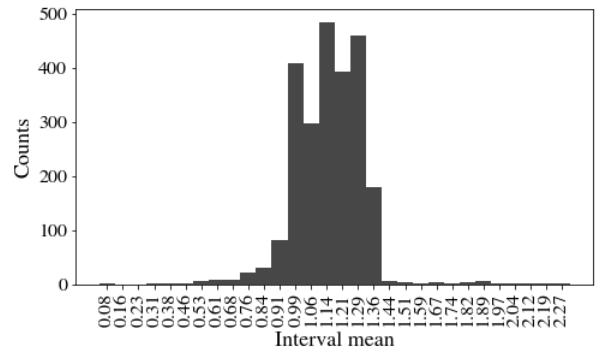
$$x_{17}^* : \frac{r_1+r_4}{r_2+r_4} = 0.79 \pm 0.34$$



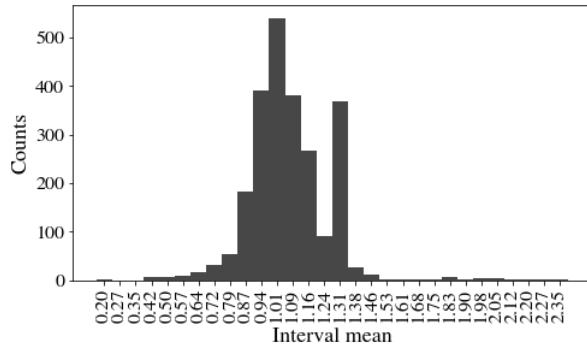
$$x_{18} : \frac{r_1+r_4}{r_3+r_4} = 0.88 \pm 1.08$$



$$x_{19}^* : \frac{r_2+r_3}{r_2+r_4} = 1.09 \pm 0.19$$

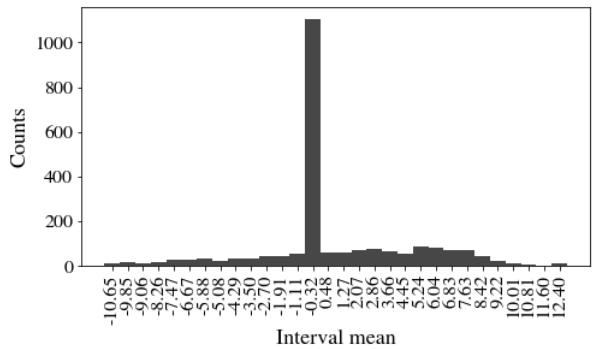


$$x_{20} : \frac{r_2+r_3}{r_3+r_4} = 1.18 \pm 0.63$$

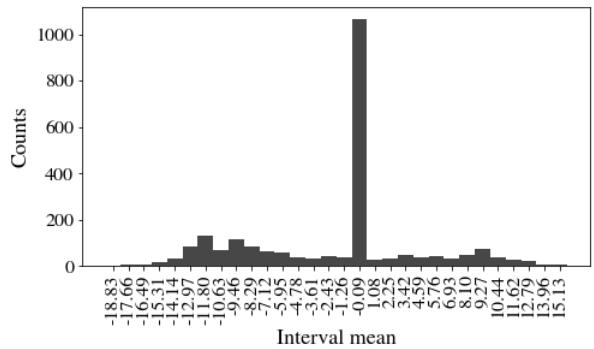


$$x_{21} : \frac{r_2+r_4}{r_3+r_4} = 1.11 \pm 0.64$$

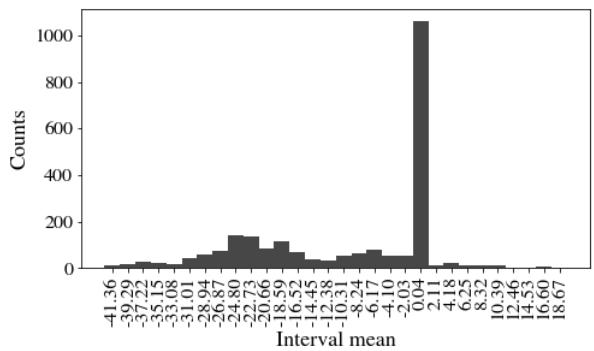
### D.1.3 Funciones de localidad



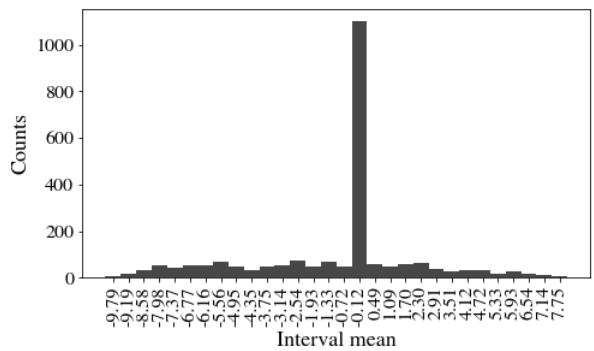
$$x_{22}^* : f_{12} = 0.90 \pm 5.99$$



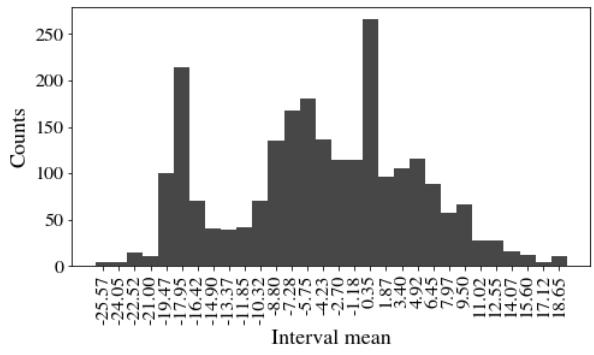
$$x_{23}^* : f_{13} = -1.87 \pm 8.92$$



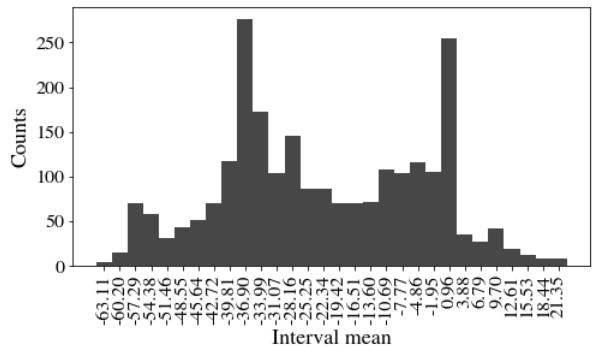
$$x_{24}^* : f_{14} = -10.30 \pm 16.57$$



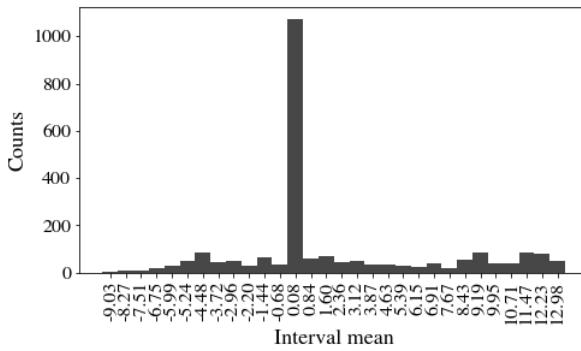
$$x_{25}^* : f_{21} = -1.01 \pm 4.55$$



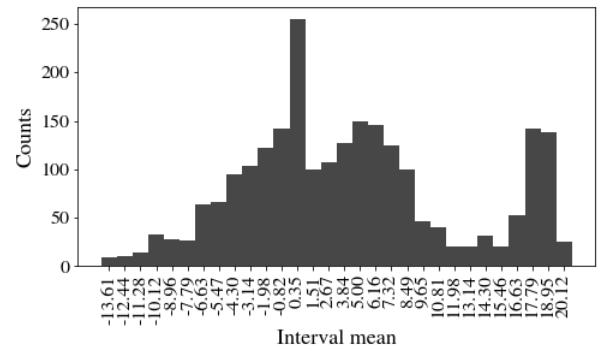
$$x_{26}^* : f_{23} = -3.61 \pm 11.53$$



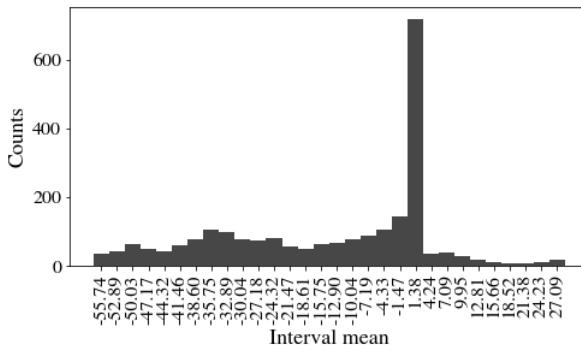
$$x_{27}^* : f_{24} = -21.56 \pm 22.27$$



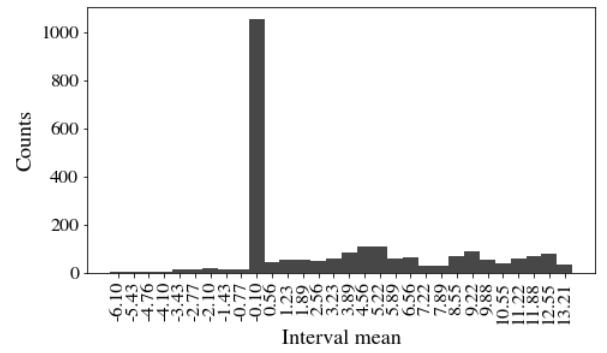
$$x_{28}^* : f_{31} = 1.90 \pm 5.73$$



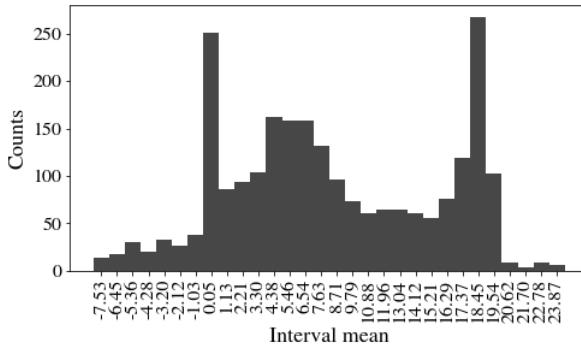
$$x_{29}^* : f_{32} = 3.71 \pm 9.05$$



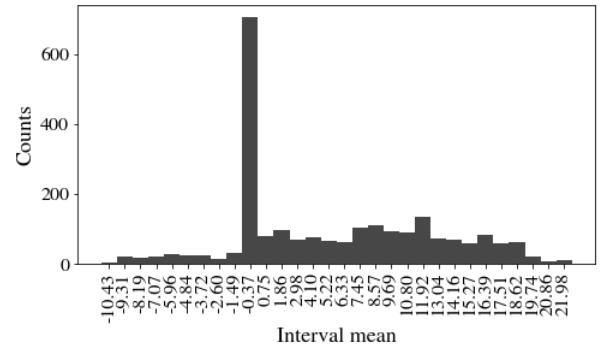
$$x_{30}^* : f_{34} = -14.36 \pm 21.44$$



$$x_{31}^* : f_{41} = 3.52 \pm 5.01$$



$$x_{32}^* : f_{42} = 8.04 \pm 8.19$$

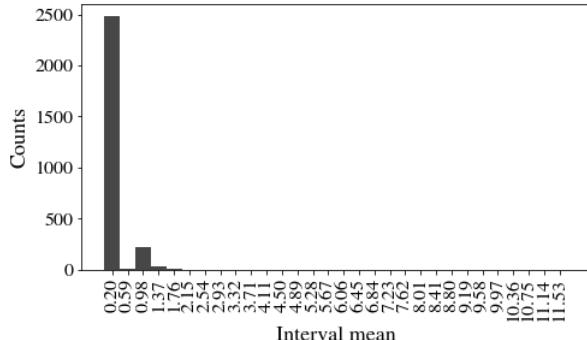


$$x_{33}^* : f_{43} = 5.67 \pm 8.46$$

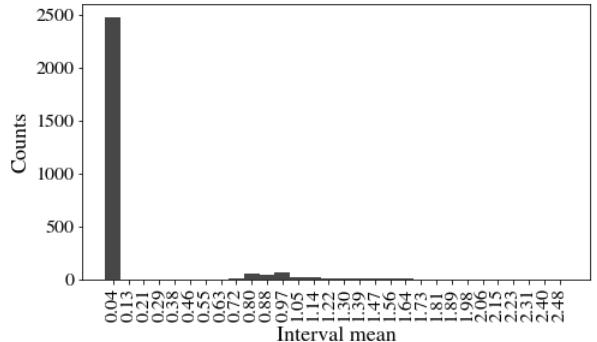


## D.2 Red Neuronal Artificial de 6 sitios

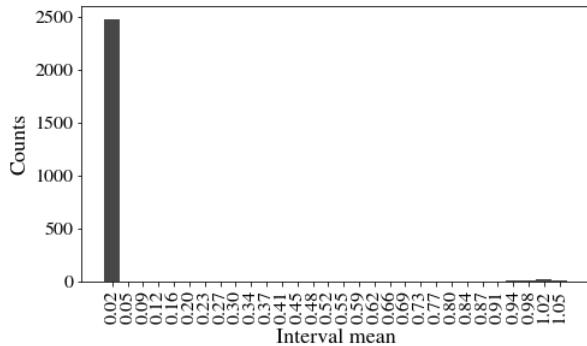
### D.2.1 Factores geométricos



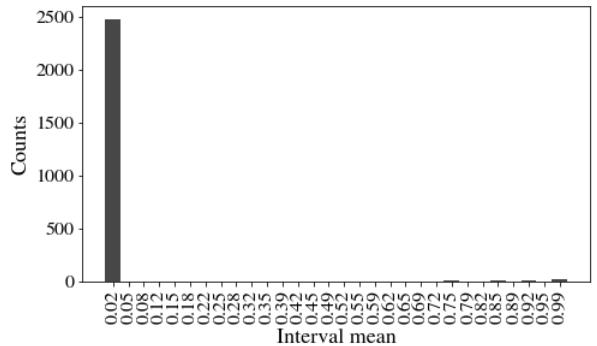
$$x_1^* : \frac{r_1}{r_2} = 0.24 \pm 6.34$$



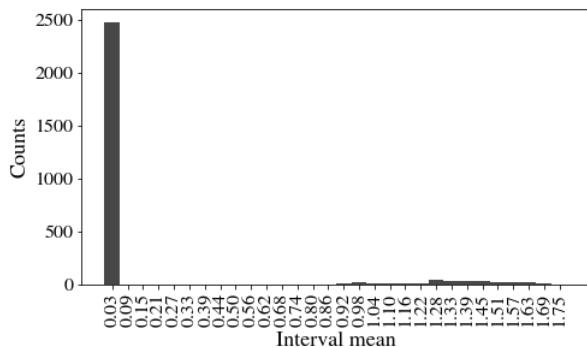
$$x_2^* : \frac{r_1}{r_3} = 0.14 \pm 1.70$$



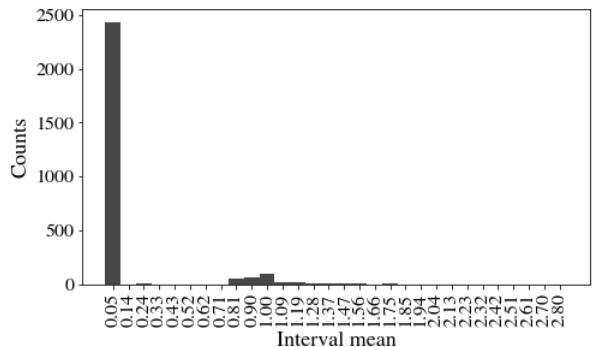
$$x_3^* : \frac{r_1}{r_4} = 0.14 \pm 0.47$$



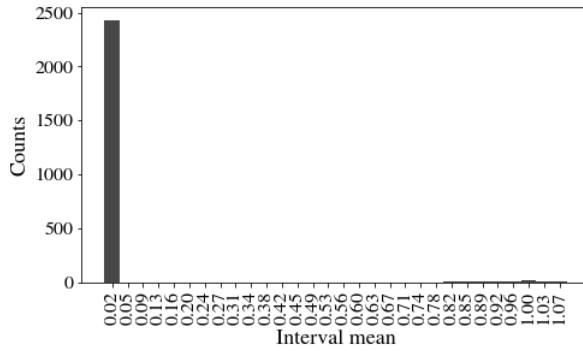
$$x_4^* : \frac{r_1}{r_5} = 0.14 \pm 0.45$$



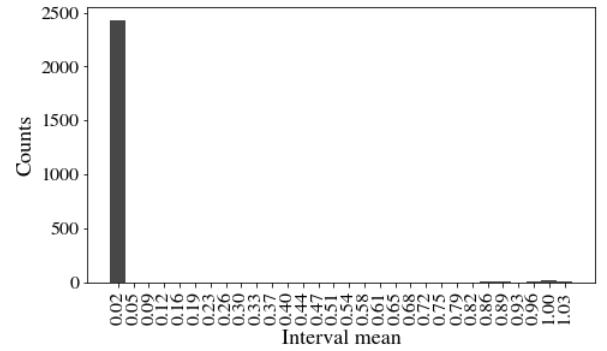
$$x_5^* : \frac{r_1}{r_6} = 0.16 \pm 0.94$$



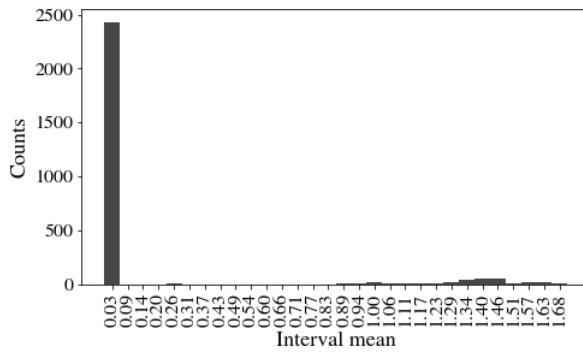
$$x_6^* : \frac{r_2}{r_3} = 0.15 \pm 1.38$$



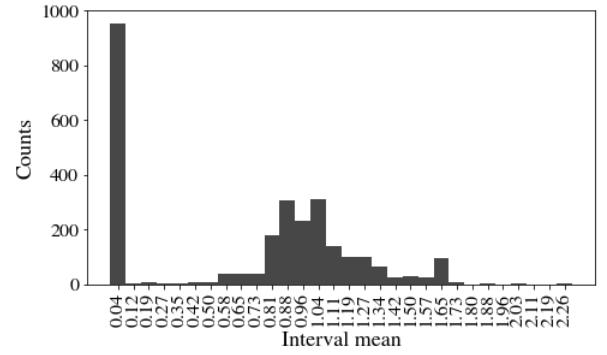
$$x_7^* : \frac{r_2}{r_4} = 0.15 \pm 0.47$$



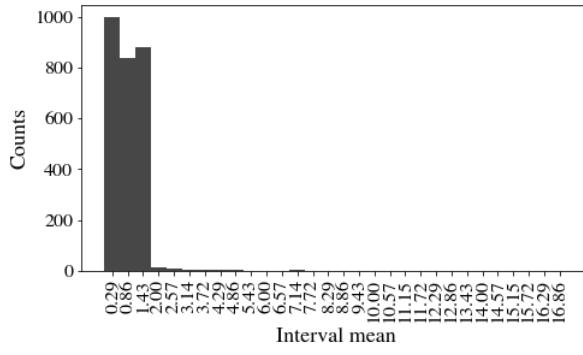
$$x_8^* : \frac{r_2}{r_5} = 0.16 \pm 0.46$$



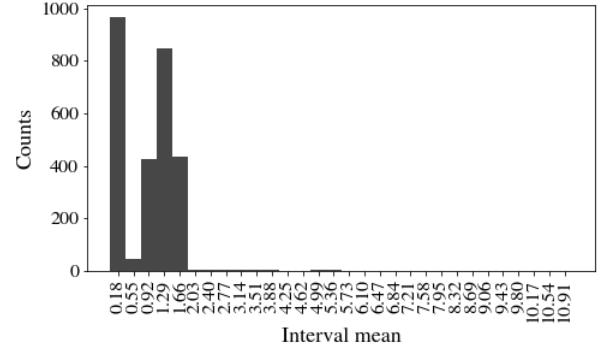
$$x_9^* : \frac{r_2}{r_6} = 0.17 \pm 0.80$$



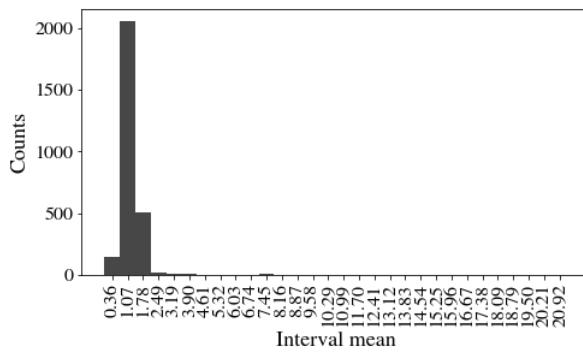
$$x_{10}^* : \frac{r_3}{r_4} = 0.72 \pm 0.80$$



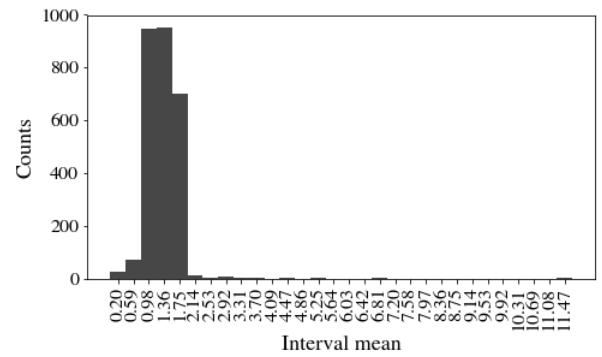
$$x_{11}^* : \frac{r_3}{r_5} = 1.10 \pm 8.34$$



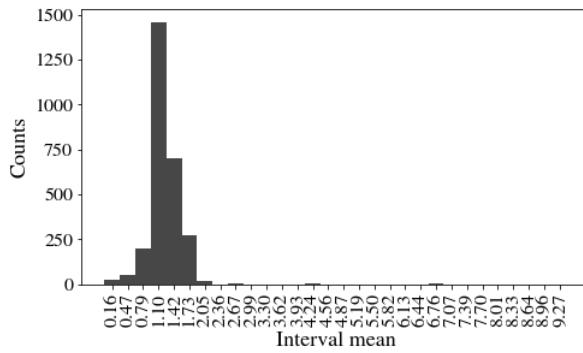
$$x_{12}^* : \frac{r_3}{r_6} = 1.18 \pm 6.73$$



$$x_{13} : \frac{r_4}{r_5} = 1.53 \pm 10.05$$

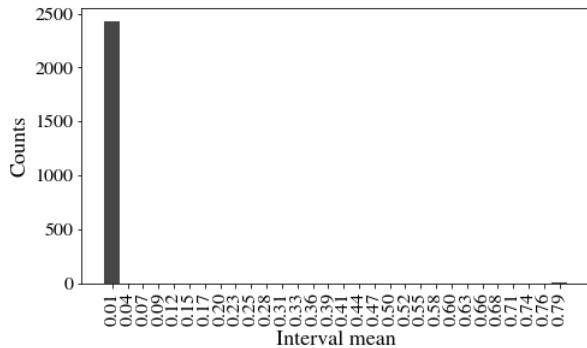


$$x_{14}^* : \frac{r_4}{r_6} = 1.59 \pm 5.42$$

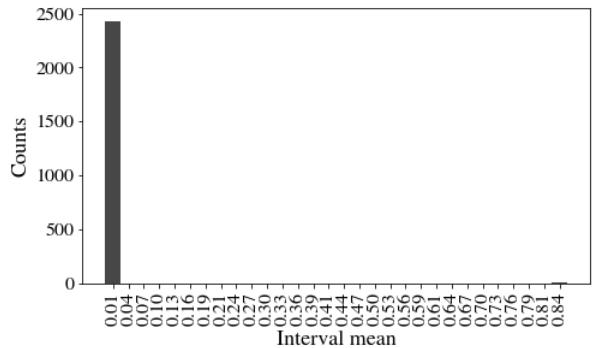


$$x_{15} : \frac{r_5}{r_6} = 1.35 \pm 4.10$$

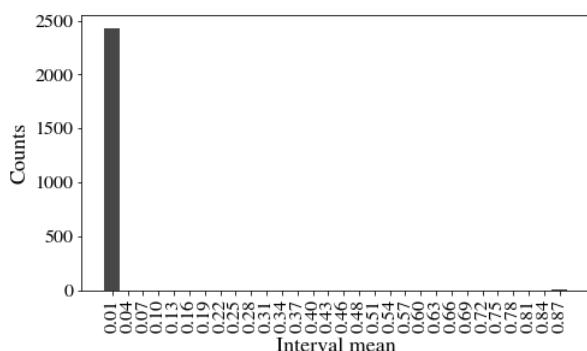
## D.2.2 Factores de empaquetamiento



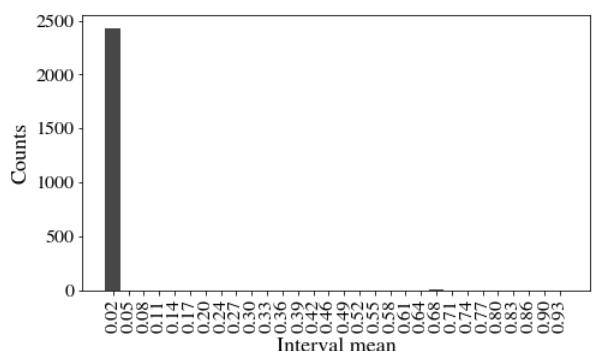
$$x_{16}^* : \frac{r_1+r_2}{r_1+r_3} = 0.12 \pm 0.36$$



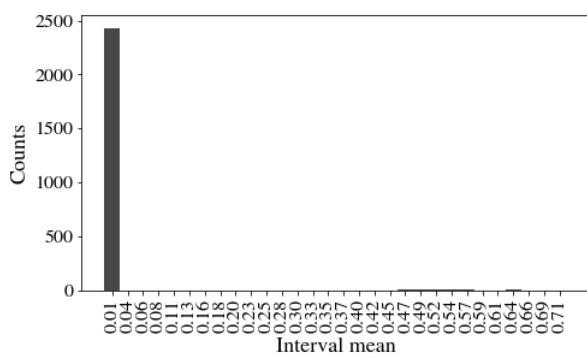
$$x_{17}^* : \frac{r_1+r_2}{r_1+r_4} = 0.13 \pm 0.37$$



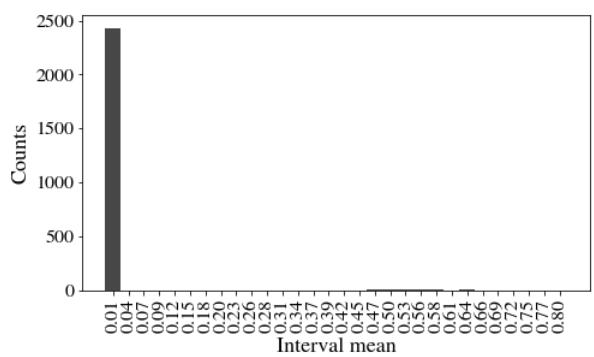
$$x_{18} : \frac{r_1+r_2}{r_1+r_5} = 0.13 \pm 0.38$$



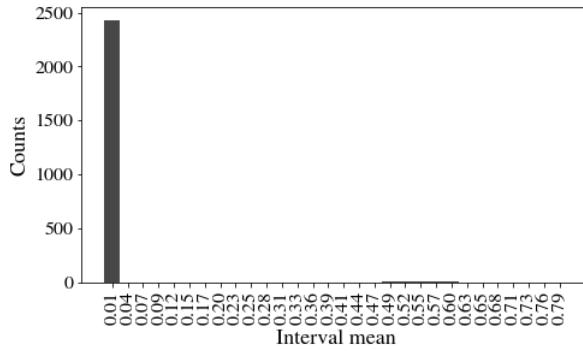
$$x_{19} : \frac{r_1+r_2}{r_1+r_6} = 0.14 \pm 0.40$$



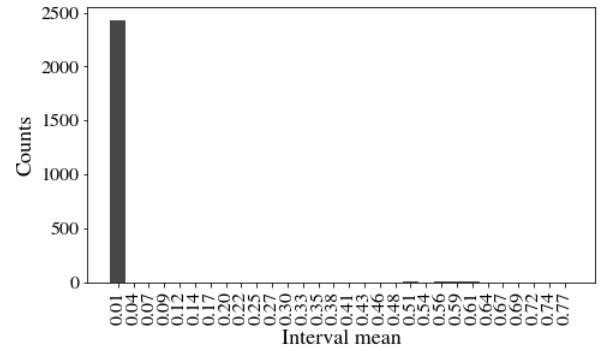
$$x_{20}^* : \frac{r_1+r_2}{r_2+r_3} = 0.11 \pm 0.32$$



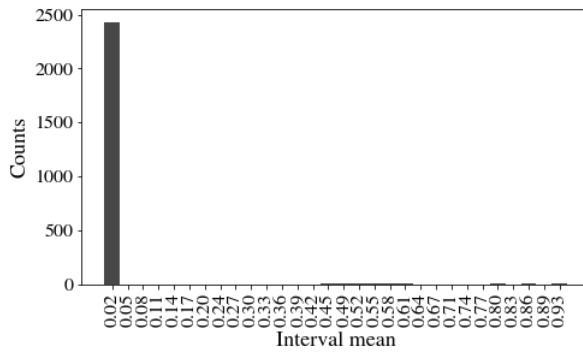
$$x_{21} : \frac{r_1+r_2}{r_2+r_4} = 0.12 \pm 0.35$$



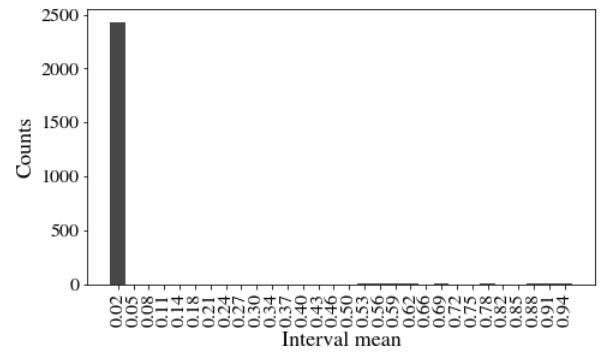
$$x_{22} : \frac{r_1+r_2}{r_2+r_5} = 0.13 \pm 0.35$$



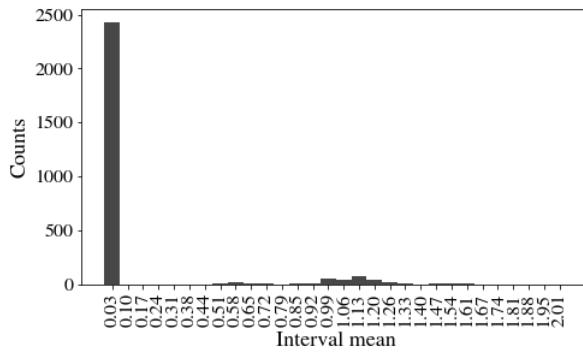
$$x_{23} : \frac{r_1+r_2}{r_2+r_6} = 0.13 \pm 0.36$$



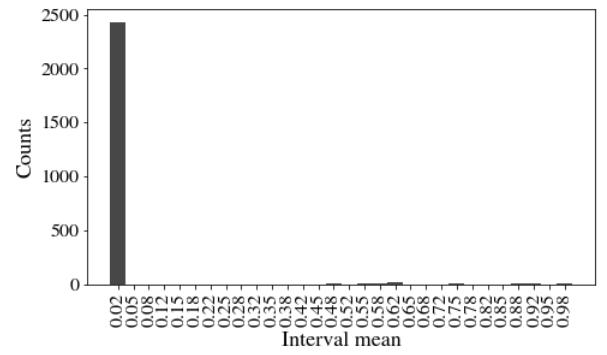
$$x_{24}^* : \frac{r_1+r_2}{r_3+r_4} = 0.13 \pm 0.41$$



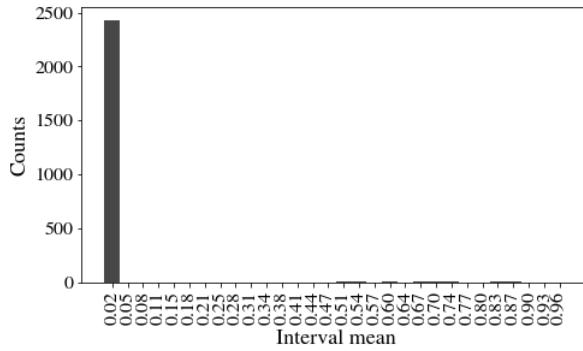
$$x_{25} : \frac{r_1+r_2}{r_3+r_5} = 0.13 \pm 0.42$$



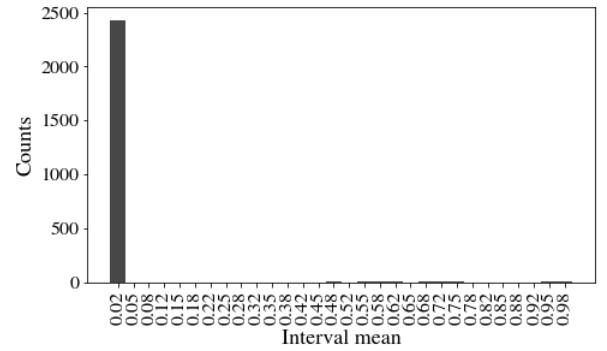
$$x_{26} : \frac{r_1+r_2}{r_3+r_6} = 0.15 \pm 1.05$$



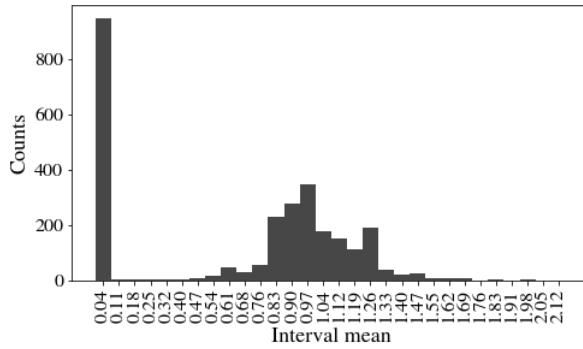
$$x_{27} : \frac{r_1+r_2}{r_4+r_5} = 0.14 \pm 0.43$$



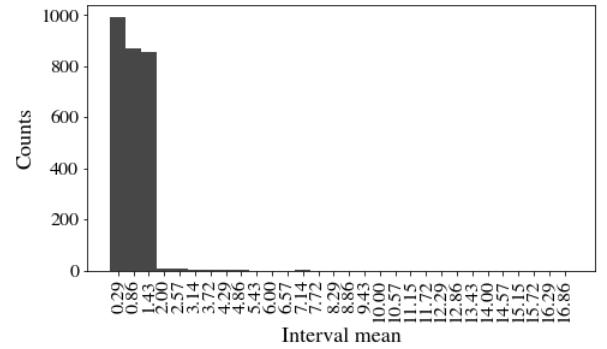
$$x_{28} : \frac{r_1+r_2}{r_4+r_6} = 0.14 \pm 0.42$$



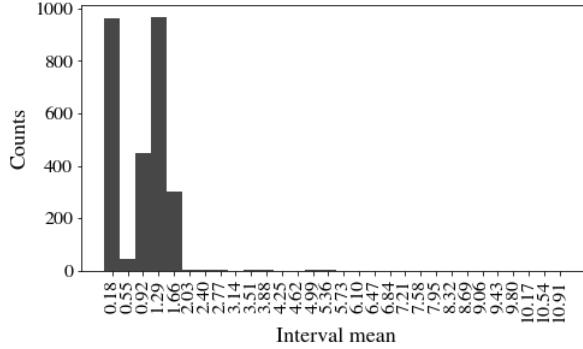
$$x_{29} : \frac{r_1+r_2}{r_5+r_6} = 0.15 \pm 0.43$$



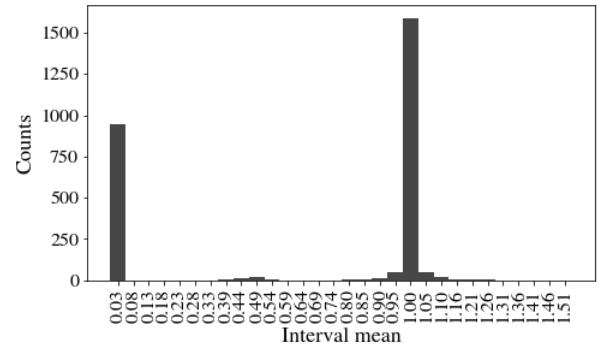
$$x_{30} : \frac{r_1+r_3}{r_1+r_4} = 0.70 \pm 0.78$$



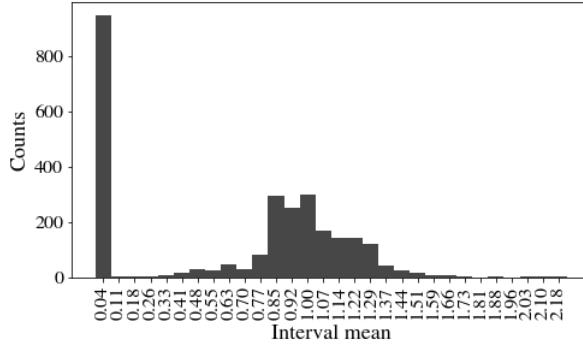
$$x_{31} : \frac{r_1+r_3}{r_1+r_5} = 1.08 \pm 8.33$$



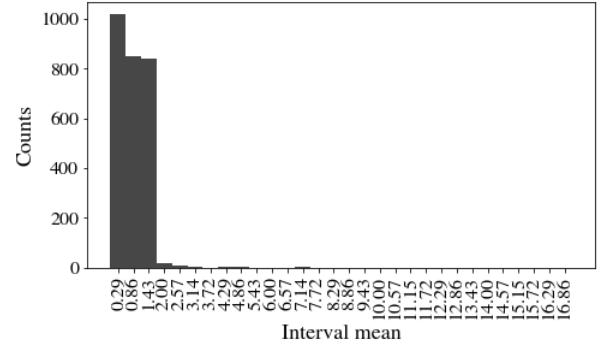
$$x_{32} : \frac{r_1+r_3}{r_1+r_6} = 1.16 \pm 6.73$$



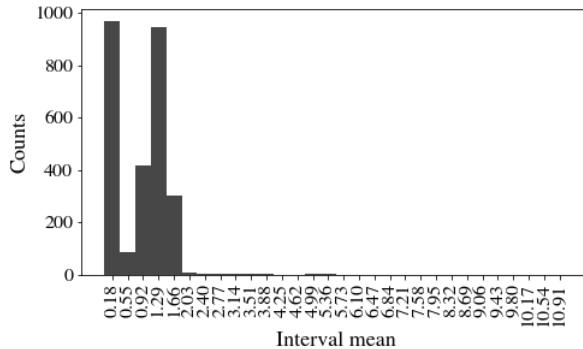
$$x_{33}^* : \frac{r_1+r_3}{r_2+r_3} = 0.65 \pm 0.48$$



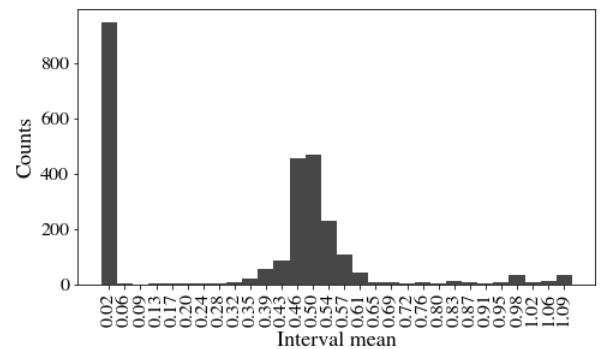
$$x_{34} : \frac{r_1+r_3}{r_2+r_4} = 0.69 \pm 0.78$$



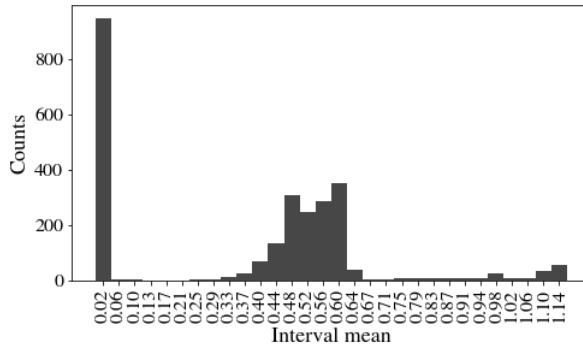
$$x_{35} : \frac{r_1+r_3}{r_2+r_5} = 1.07 \pm 8.33$$



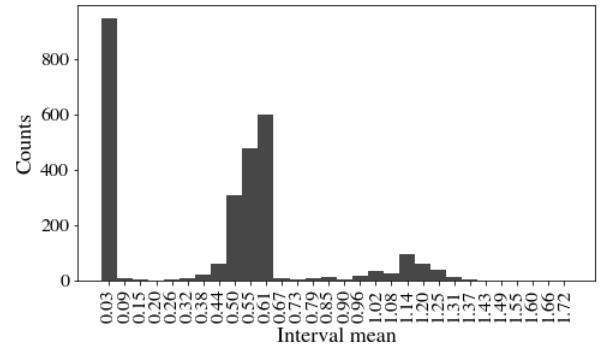
$$x_{36} : \frac{r_1+r_3}{r_2+r_6} = 1.15 \pm 6.73$$



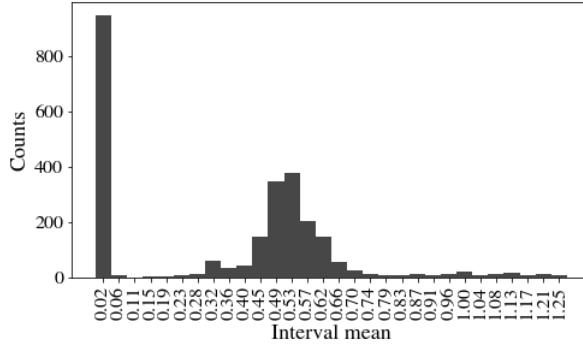
$$x_{37}^* : \frac{r_1+r_3}{r_3+r_4} = 0.39 \pm 0.36$$



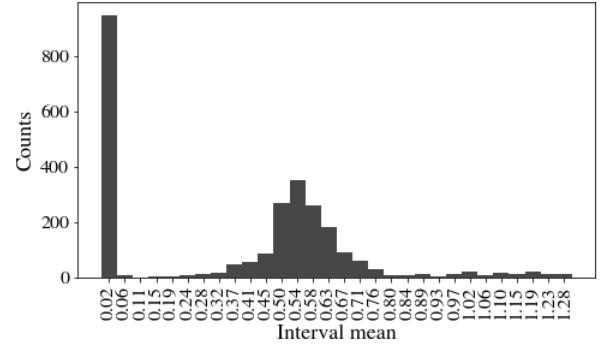
$$x_{38} : \frac{r_1+r_3}{r_3+r_5} = 0.41 \pm 0.37$$



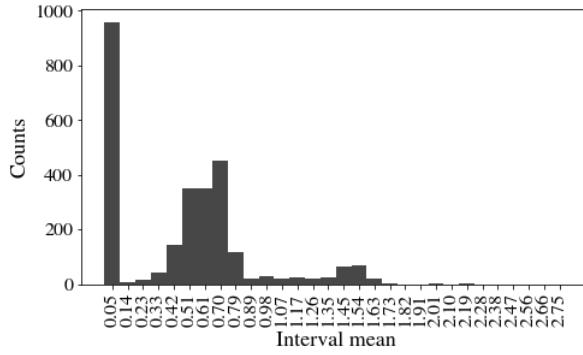
$$x_{39}^* : \frac{r_1+r_3}{r_3+r_6} = 0.44 \pm 0.66$$



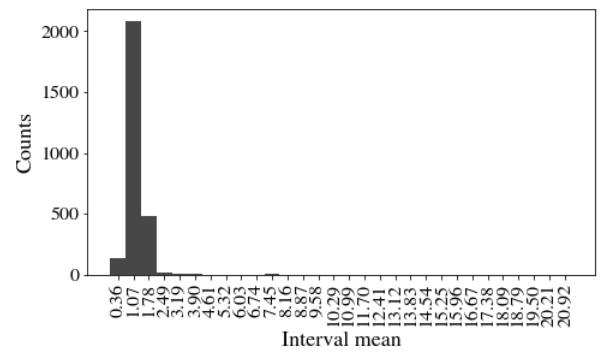
$$x_{40} : \frac{r_1+r_3}{r_4+r_5} = 0.43 \pm 0.42$$



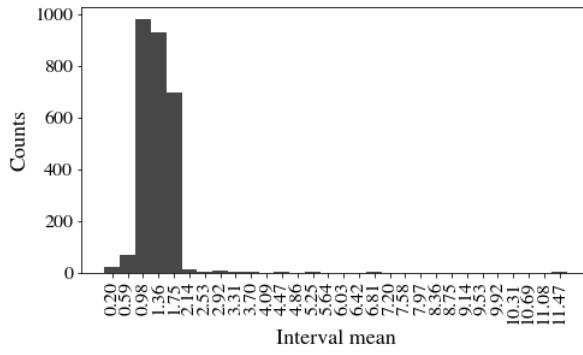
$$x_{41} : \frac{r_1+r_3}{r_4+r_6} = 0.45 \pm 0.43$$



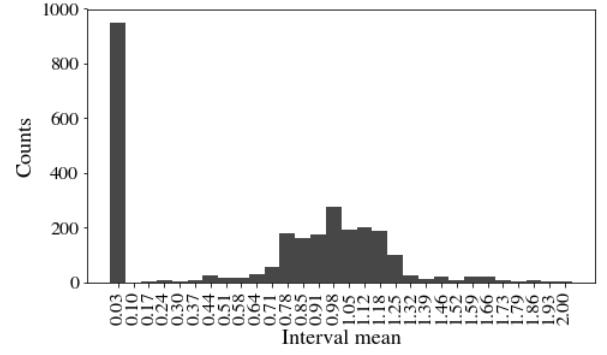
$$x_{42}^* : \frac{r_1+r_3}{r_5+r_6} = 0.52 \pm 1.18$$



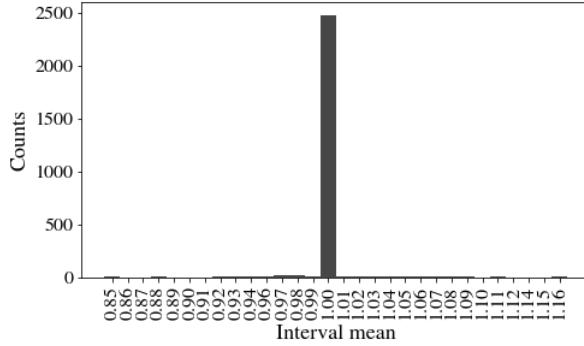
$$x_{43} : \frac{r_1+r_4}{r_1+r_5} = 1.53 \pm 10.05$$



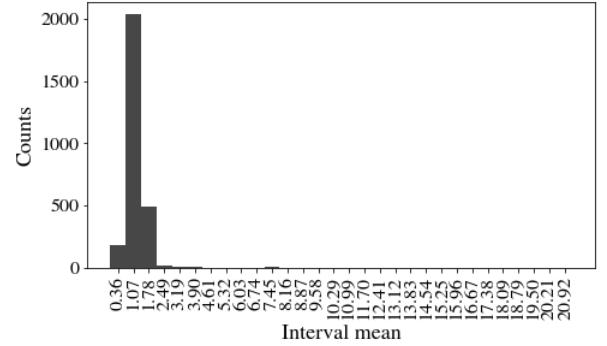
$$x_{44} : \frac{r_1+r_4}{r_1+r_6} = 1.57 \pm 5.31$$



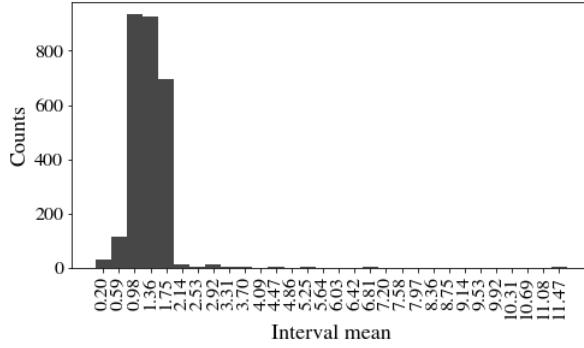
$$x_{45}^* : \frac{r_1+r_4}{r_2+r_3} = 0.69 \pm 0.71$$



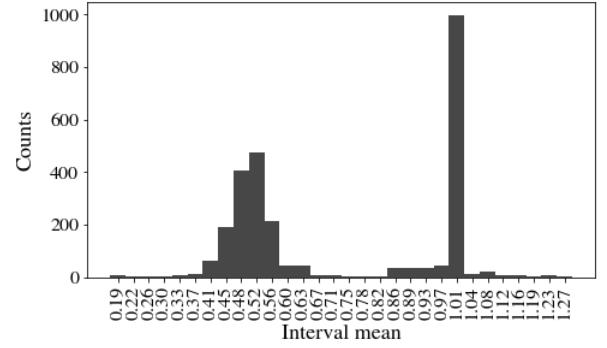
$$x_{46}^* : \frac{r_1+r_4}{r_2+r_4} = 0.99 \pm 0.09$$



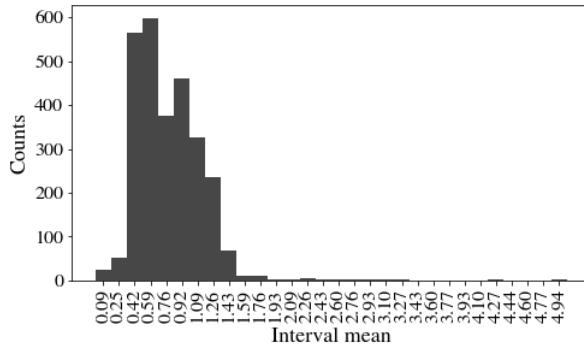
$$x_{47} : \frac{r_1+r_4}{r_2+r_5} = 1.52 \pm 10.05$$



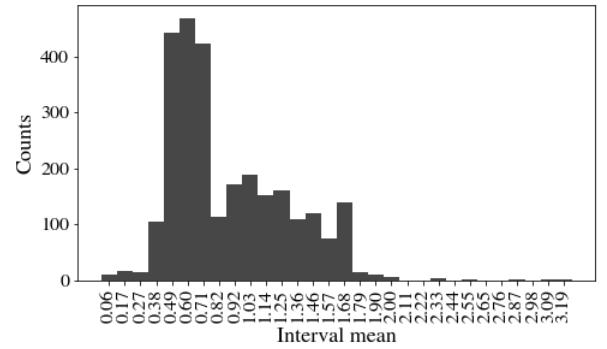
$$x_{48} : \frac{r_1+r_4}{r_2+r_6} = 1.56 \pm 5.32$$



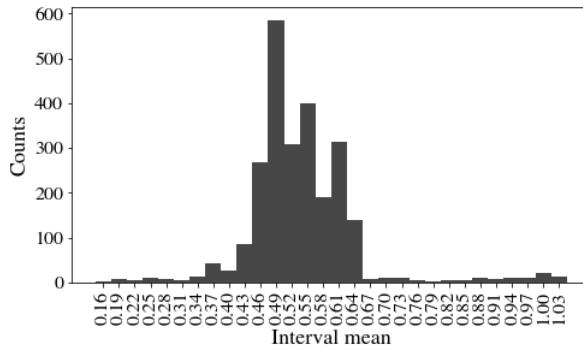
$$x_{49}^* : \frac{r_1+r_4}{r_3+r_4} = 0.73 \pm 0.28$$



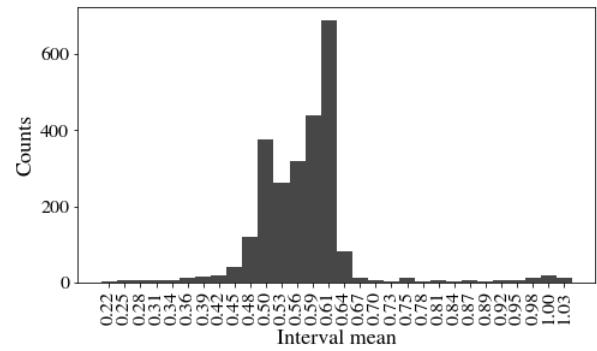
$$x_{50}^* : \frac{r_1+r_4}{r_3+r_5} = 0.86 \pm 2.24$$



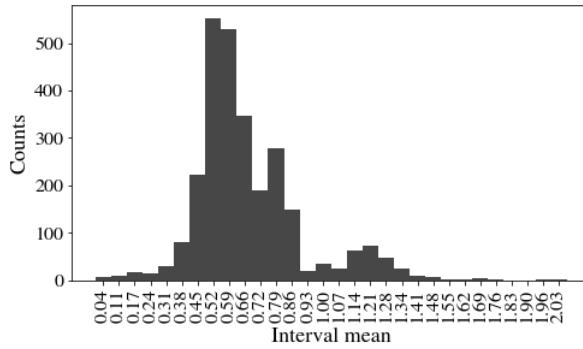
$$x_{51}^* : \frac{r_1+r_4}{r_3+r_6} = 0.94 \pm 1.50$$



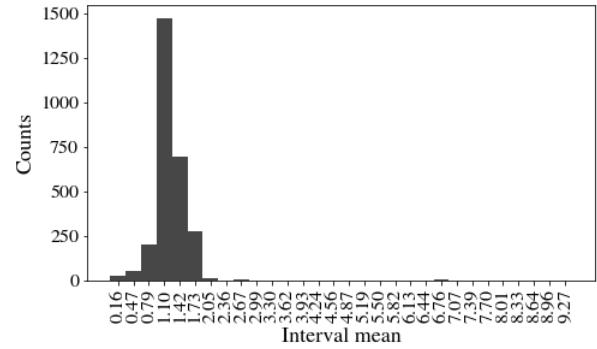
$$x_{52}^* : \frac{r_1+r_4}{r_4+r_5} = 0.59 \pm 0.23$$



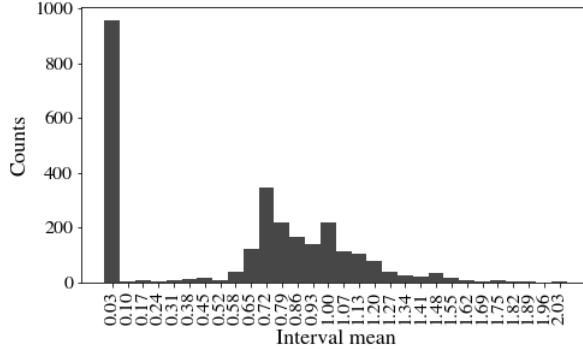
$$x_{53}^* : \frac{r_1+r_4}{r_4+r_6} = 0.63 \pm 0.21$$



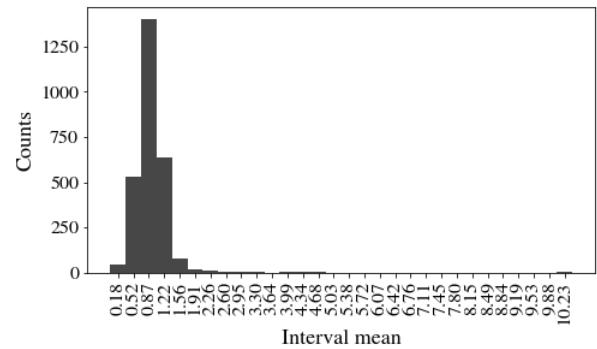
$$x_{54}^* : \frac{r_1+r_4}{r_5+r_6} = 0.71 \pm 0.70$$



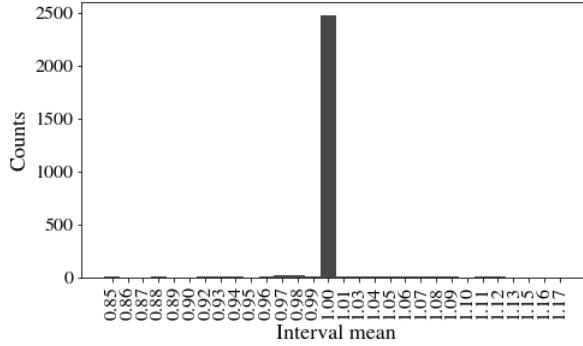
$$x_{55}^* : \frac{r_1+r_5}{r_1+r_6} = 1.34 \pm 4.06$$



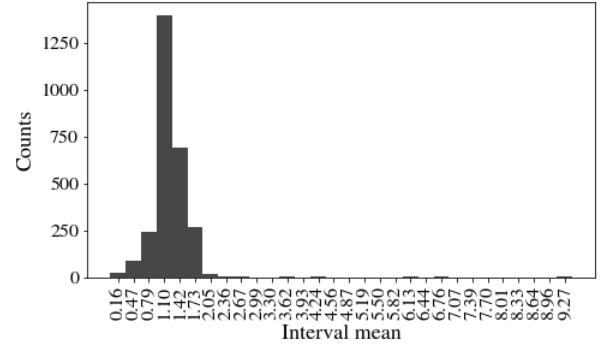
$$x_{56}^* : \frac{r_1+r_5}{r_2+r_3} = 0.63 \pm 0.72$$



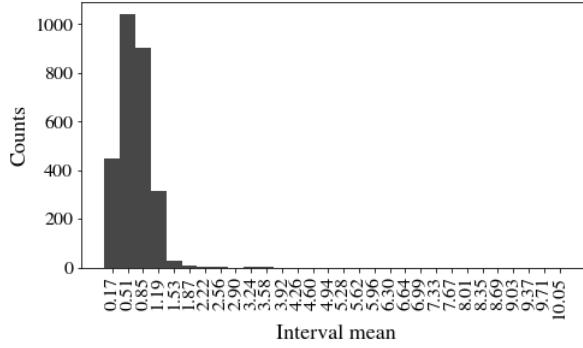
$$x_{57}^* : \frac{r_1+r_5}{r_2+r_4} = 1.07 \pm 5.20$$



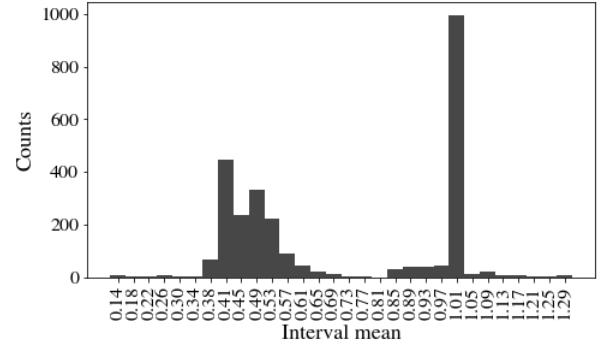
$$x_{58} : \frac{r_1+r_5}{r_2+r_5} = 0.99 \pm 0.09$$



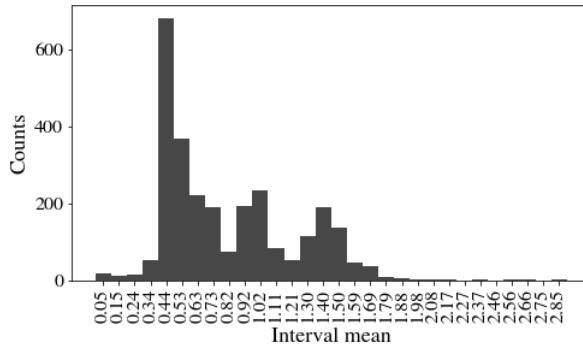
$$x_{59} : \frac{r_1+r_5}{r_2+r_6} = 1.33 \pm 4.06$$



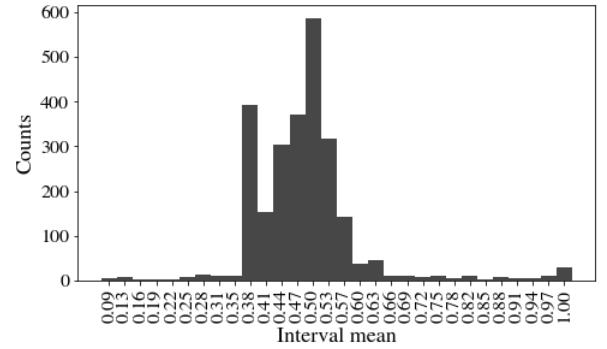
$$x_{60} : \frac{r_1+r_5}{r_3+r_4} = 0.80 \pm 5.18$$



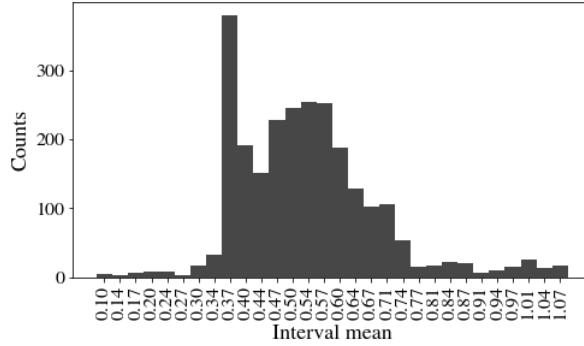
$$x_{61} : \frac{r_1+r_5}{r_3+r_5} = 0.71 \pm 0.30$$



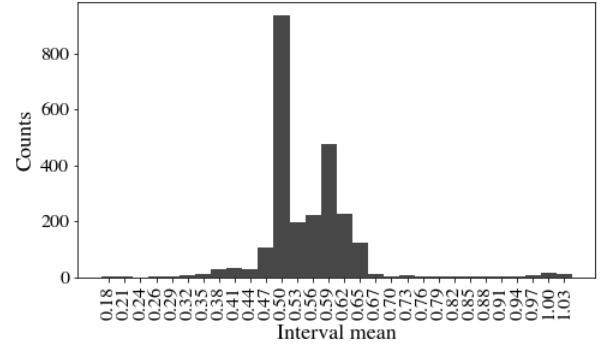
$$x_{62}^* : \frac{r_1+r_5}{r_3+r_6} = 0.85 \pm 1.09$$



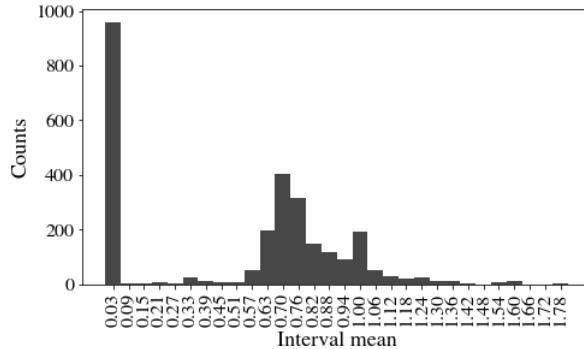
$$x_{63}^* : \frac{r_1+r_5}{r_4+r_5} = 0.54 \pm 0.24$$



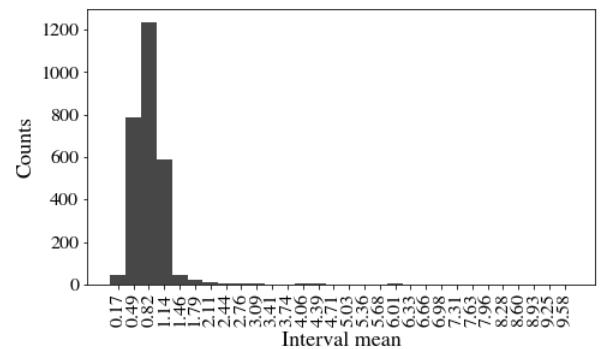
$$x_{64}^* : \frac{r_1+r_5}{r_4+r_6} = 0.59 \pm 0.25$$



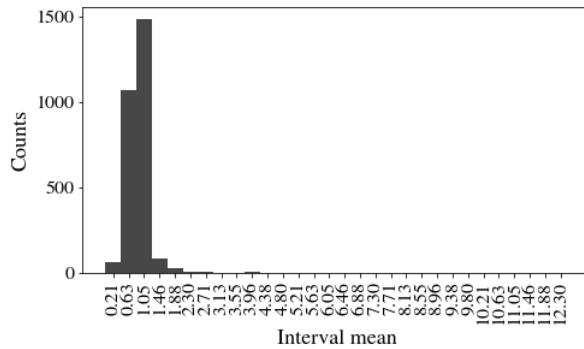
$$x_{65}^* : \frac{r_1+r_5}{r_5+r_6} = 0.60 \pm 0.22$$



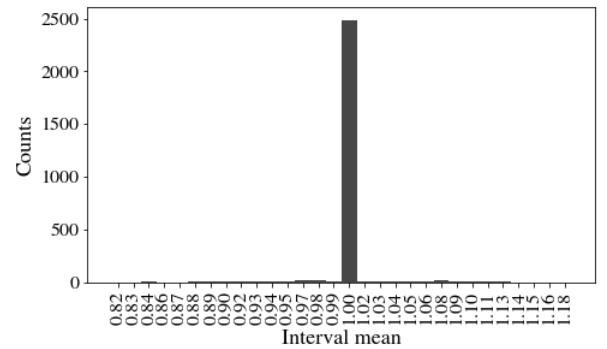
$$x_{66} : \frac{r_1+r_6}{r_2+r_3} = 0.56 \pm 0.63$$



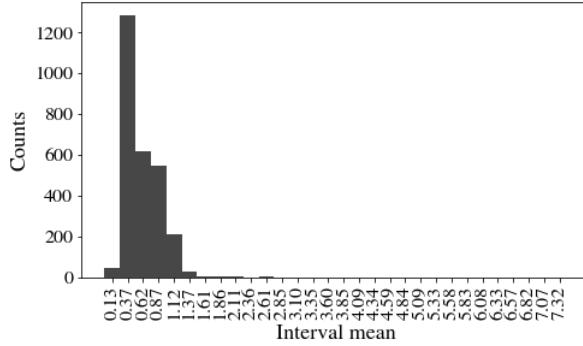
$$x_{67} : \frac{r_1+r_6}{r_2+r_4} = 0.93 \pm 4.63$$



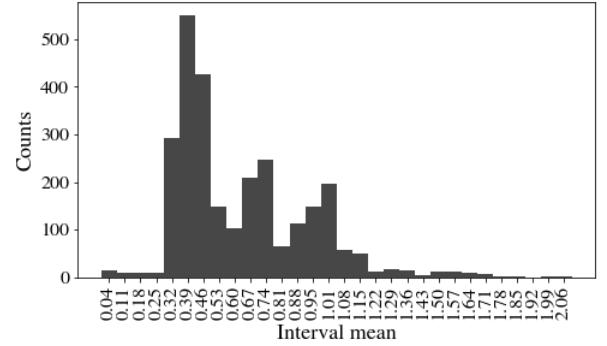
$$x_{68} : \frac{r_1+r_6}{r_2+r_5} = 1.10 \pm 6.53$$



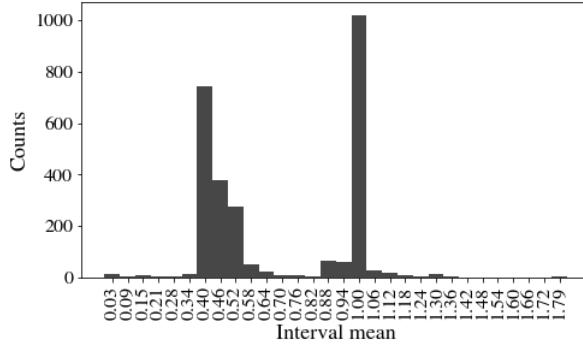
$$x_{69} : \frac{r_1+r_6}{r_2+r_6} = 0.99 \pm 0.09$$



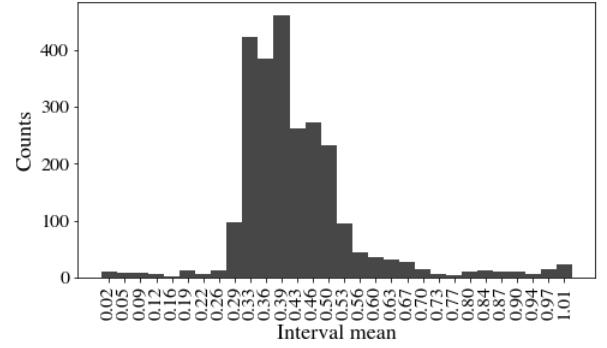
$$x_{70} : \frac{r_1+r_6}{r_3+r_4} = 0.70 \pm 4.62$$



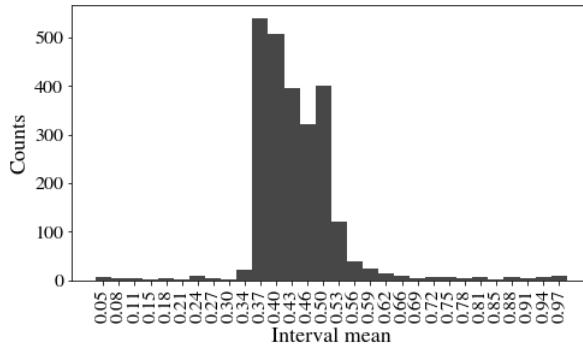
$$x_{71}^* : \frac{r_1+r_6}{r_3+r_5} = 0.66 \pm 0.76$$



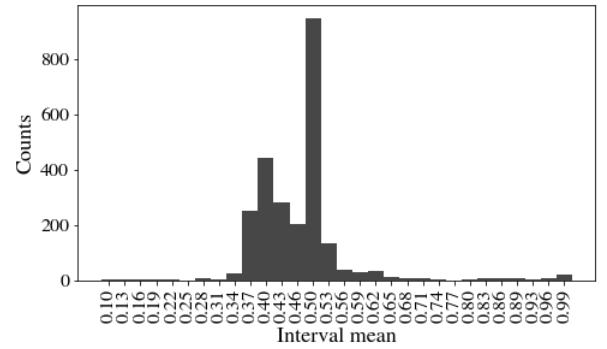
$$x_{72}^* : \frac{r_1+r_6}{r_3+r_6} = 0.70 \pm 0.62$$



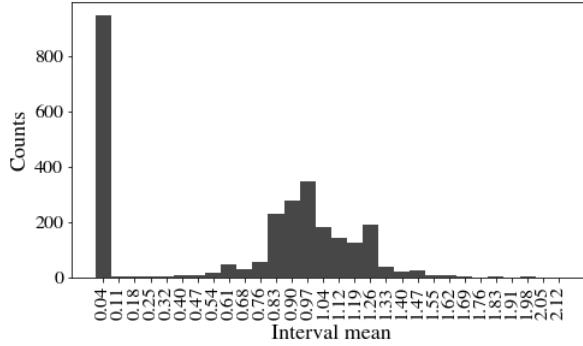
$$x_{73}^* : \frac{r_1+r_6}{r_4+r_5} = 0.49 \pm 0.27$$



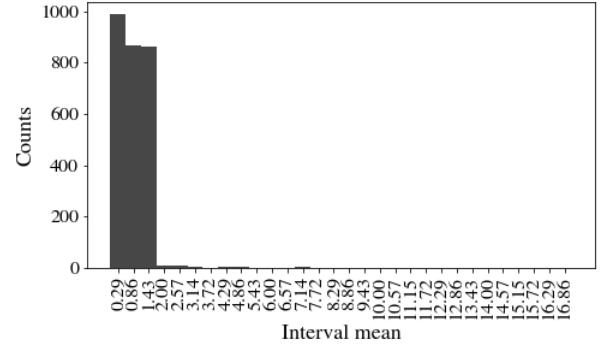
$$x_{74} : \frac{r_1+r_6}{r_4+r_6} = 0.51 \pm 0.24$$



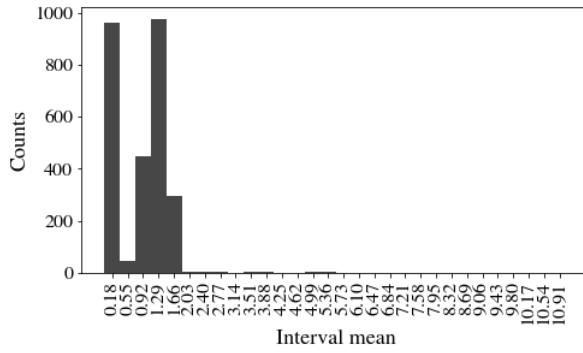
$$x_{75}^* : \frac{r_1+r_6}{r_5+r_6} = 0.54 \pm 0.24$$



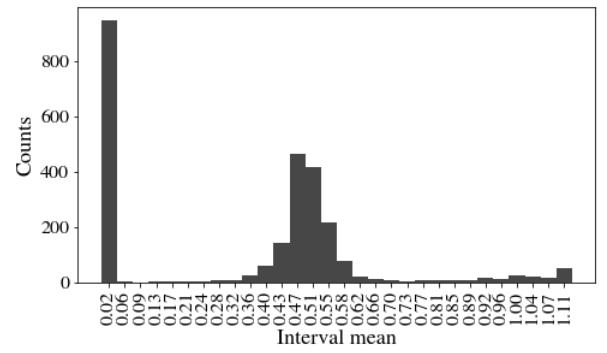
$$x_{76} : \frac{r_2+r_3}{r_2+r_4} = 0.70 \pm 0.78$$



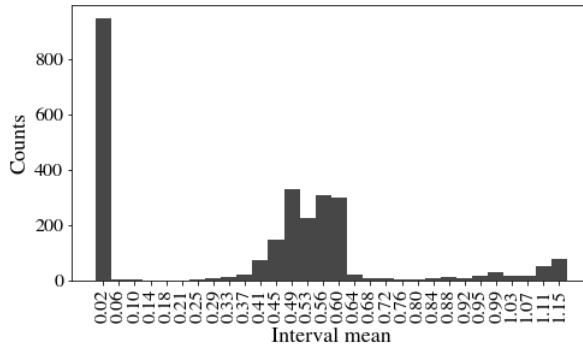
$$x_{77} : \frac{r_2+r_3}{r_2+r_5} = 1.08 \pm 8.33$$



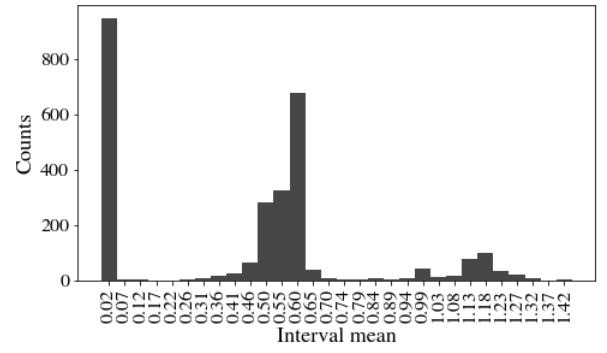
$$x_{78} : \frac{r_2+r_3}{r_2+r_6} = 1.15 \pm 6.73$$



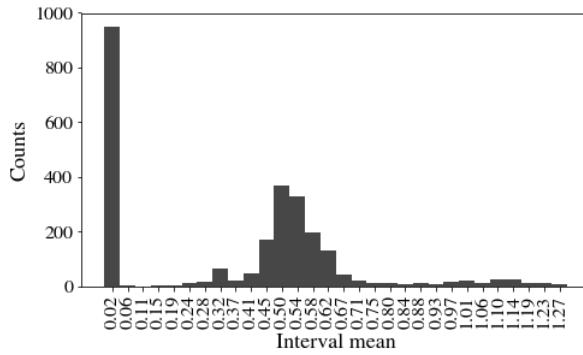
$$x_{79} : \frac{r_2+r_3}{r_3+r_4} = 0.40 \pm 0.37$$



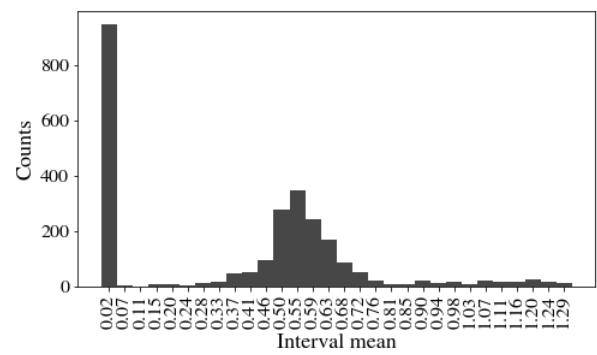
$$x_{80} : \frac{r_2+r_3}{r_3+r_5} = 0.42 \pm 0.38$$



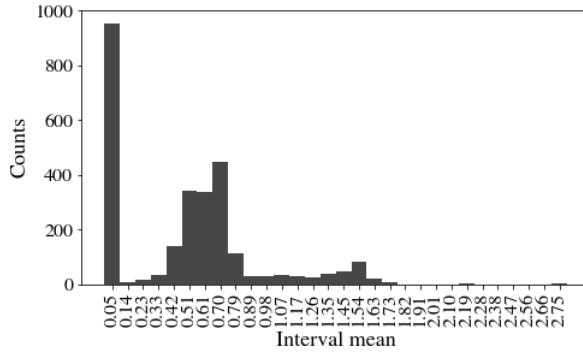
$$x_{81} : \frac{r_2+r_3}{r_3+r_6} = 0.44 \pm 0.57$$



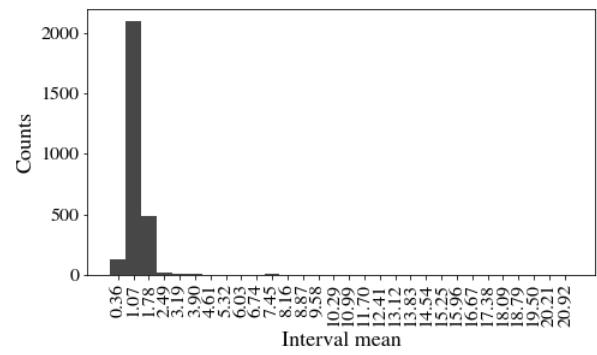
$$x_{82} : \frac{r_2+r_3}{r_4+r_5} = 0.44 \pm 0.43$$



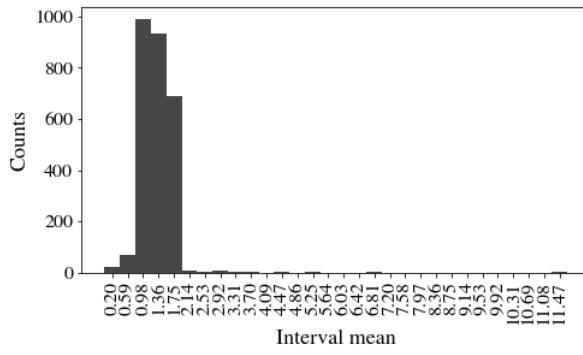
$$x_{83} : \frac{r_2+r_3}{r_4+r_6} = 0.46 \pm 0.43$$



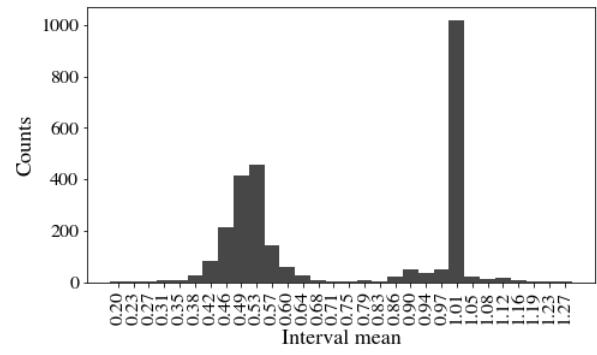
$$x_{84} : \frac{r_2+r_3}{r_5+r_6} = 0.53 \pm 1.18$$



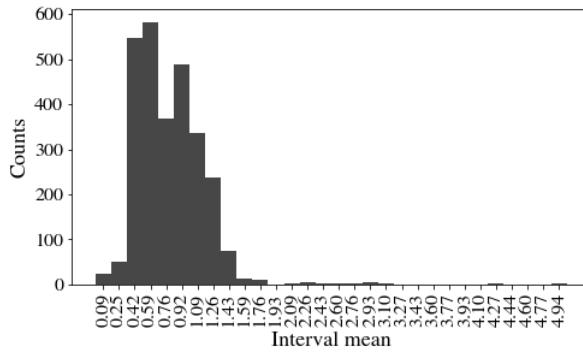
$$x_{85} : \frac{r_2+r_4}{r_2+r_5} = 1.52 \pm 10.05$$



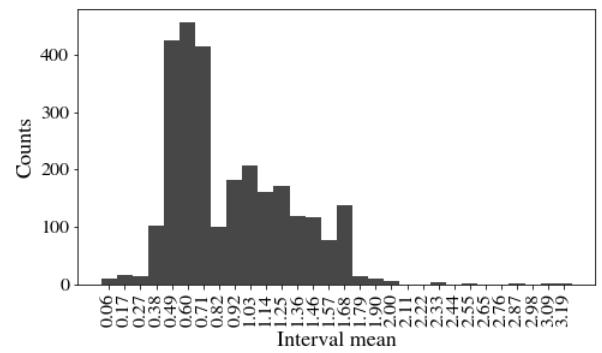
$$x_{86} : \frac{r_2+r_4}{r_2+r_6} = 1.56 \pm 5.31$$



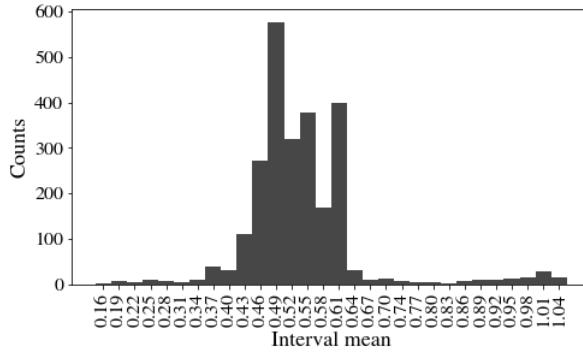
$$x_{87} : \frac{r_2+r_4}{r_3+r_4} = 0.74 \pm 0.28$$



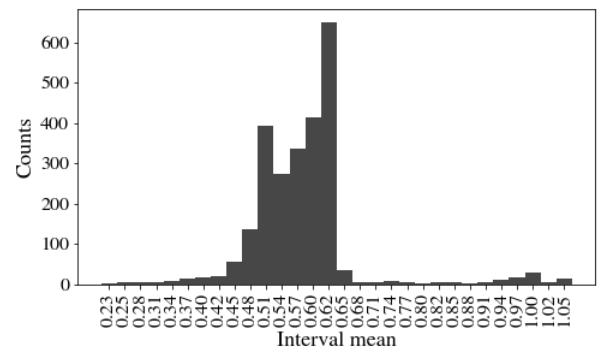
$$x_{88} : \frac{r_2+r_4}{r_3+r_5} = 0.87 \pm 2.24$$



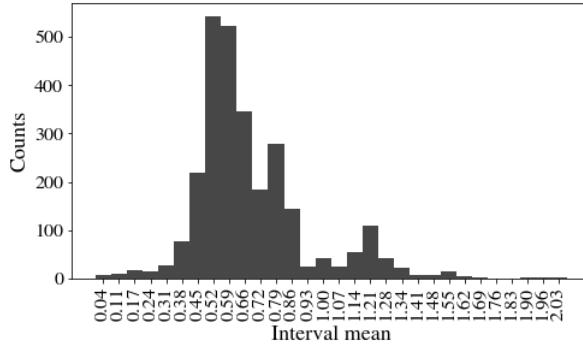
$$x_{89} : \frac{r_2+r_4}{r_3+r_6} = 0.95 \pm 1.40$$



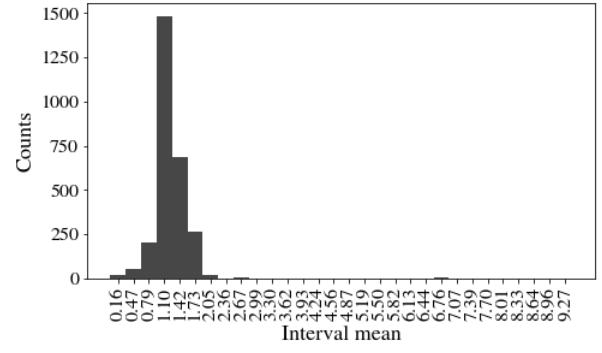
$$x_{90}^* : \frac{r_2+r_4}{r_4+r_5} = 0.60 \pm 0.23$$



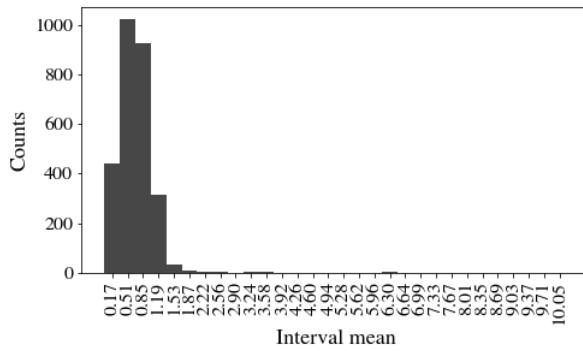
$$x_{91}^* : \frac{r_2+r_4}{r_4+r_6} = 0.64 \pm 0.22$$



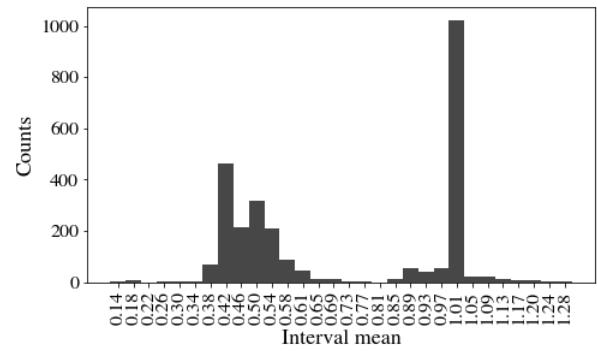
$$x_{92}^* : \frac{r_2+r_4}{r_5+r_6} = 0.72 \pm 0.70$$



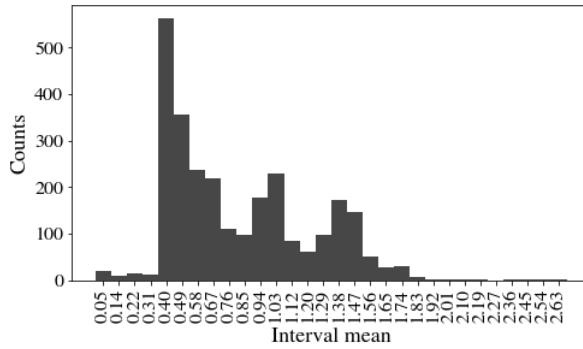
$$x_{93} : \frac{r_2+r_5}{r_2+r_6} = 1.33 \pm 4.06$$



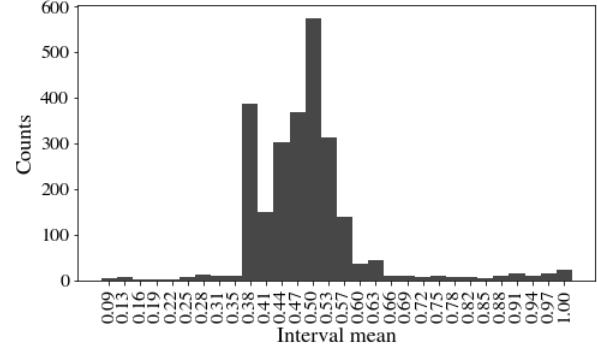
$$x_{94} : \frac{r_2+r_5}{r_3+r_4} = 0.81 \pm 5.18$$



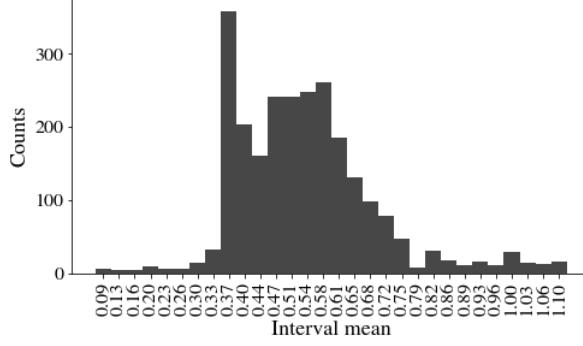
$$x_{95} : \frac{r_2+r_5}{r_3+r_5} = 0.72 \pm 0.30$$



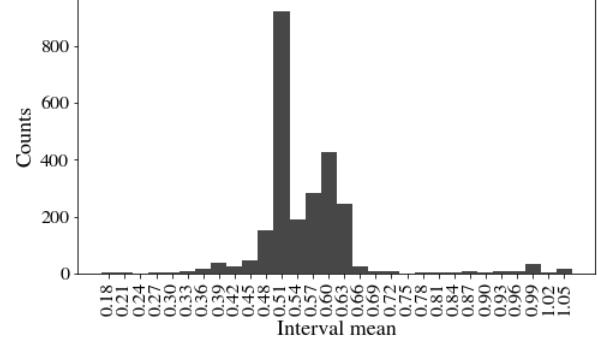
$$x_{96} : \frac{r_2+r_5}{r_3+r_6} = 0.86 \pm 1.00$$



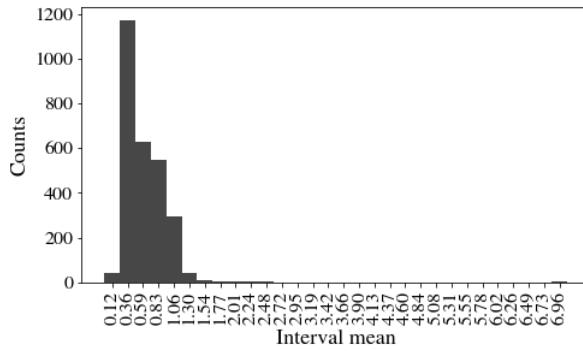
$$x_{97}^* : \frac{r_2+r_5}{r_4+r_5} = 0.55 \pm 0.24$$



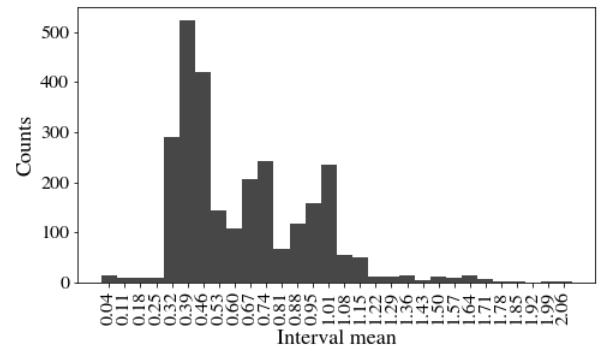
$$x_{98}^* : \frac{r_2+r_5}{r_4+r_6} = 0.59 \pm 0.26$$



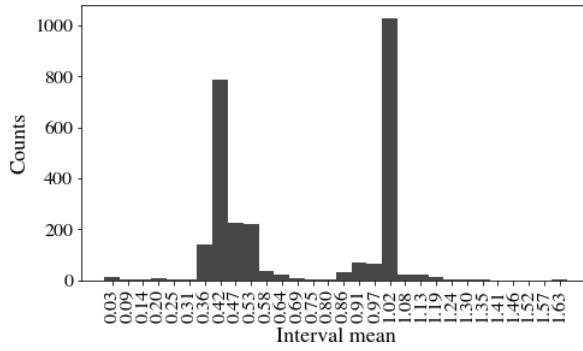
$$x_{99}^* : \frac{r_2+r_5}{r_5+r_6} = 0.61 \pm 0.23$$



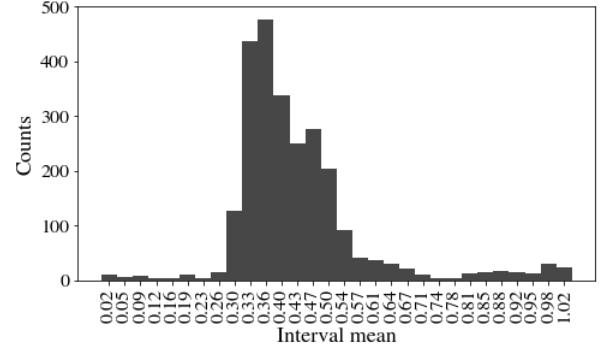
$$x_{100} : \frac{r_2+r_6}{r_3+r_4} = 0.71 \pm 4.62$$



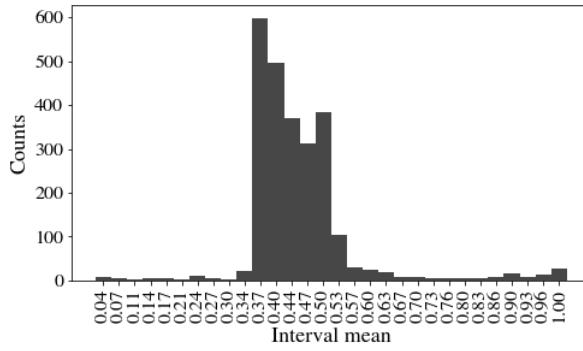
$$x_{101} : \frac{r_2+r_6}{r_3+r_5} = 0.67 \pm 0.76$$



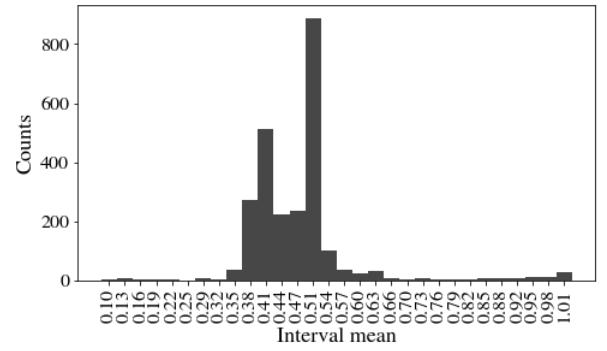
$$x_{102} : \frac{r_2+r_6}{r_3+r_6} = 0.71 \pm 0.52$$



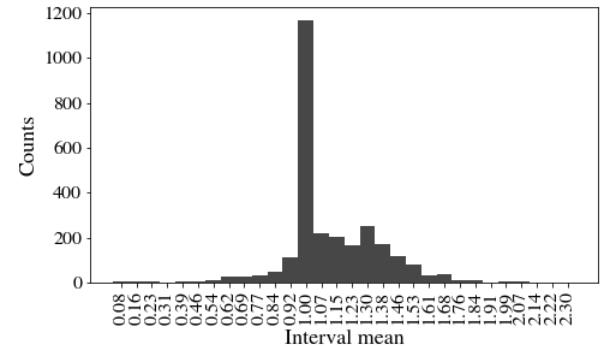
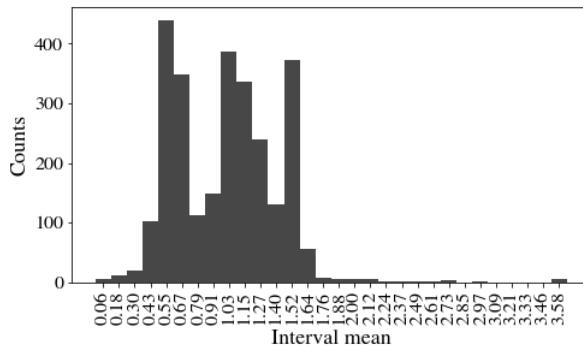
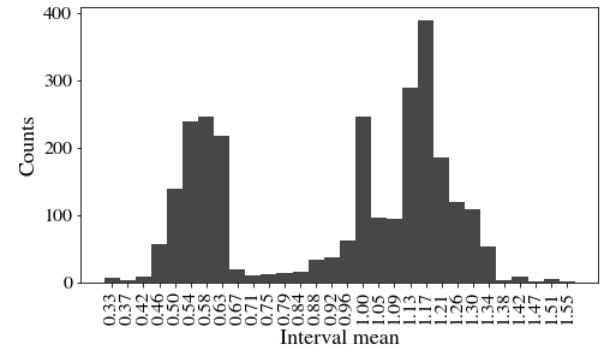
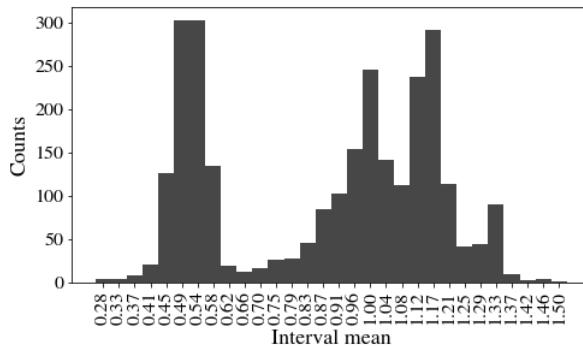
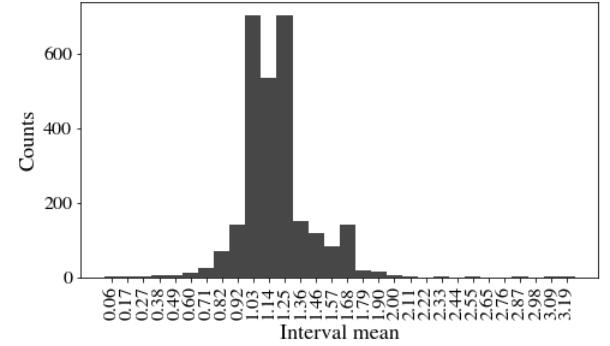
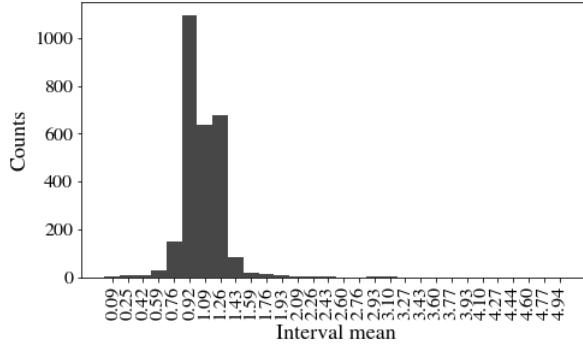
$$x_{103}^* : \frac{r_2+r_6}{r_4+r_5} = 0.50 \pm 0.27$$

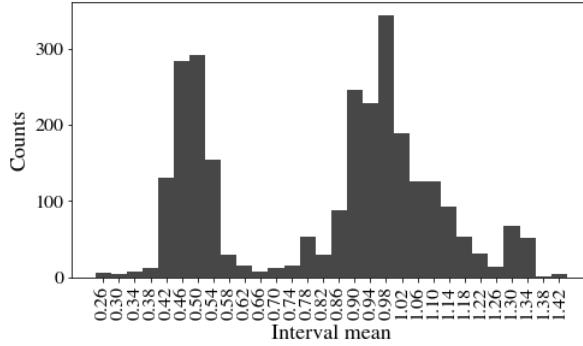


$$x_{104} : \frac{r_2+r_6}{r_4+r_6} = 0.52 \pm 0.25$$

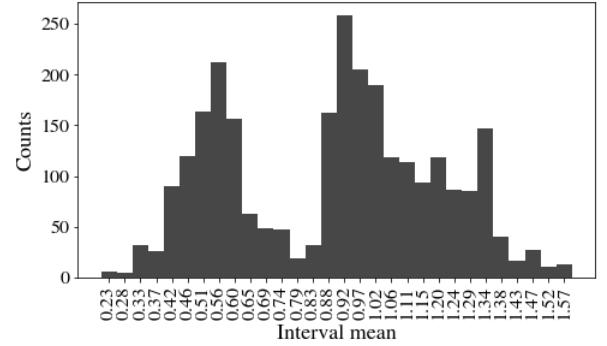


$$x_{105}^* : \frac{r_2+r_6}{r_5+r_6} = 0.54 \pm 0.24$$

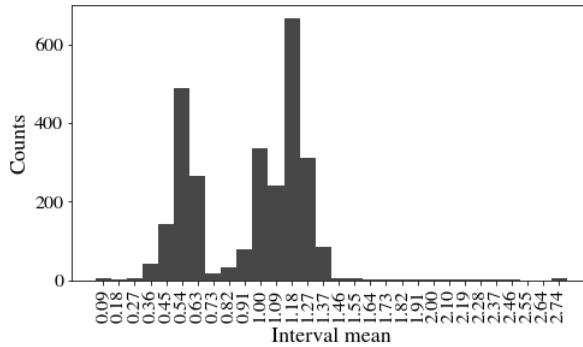




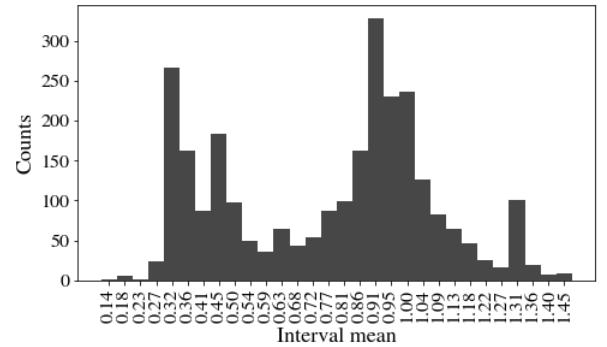
$$x_{112}^* : \frac{r_3+r_5}{r_4+r_5} = 0.84 \pm 0.30$$



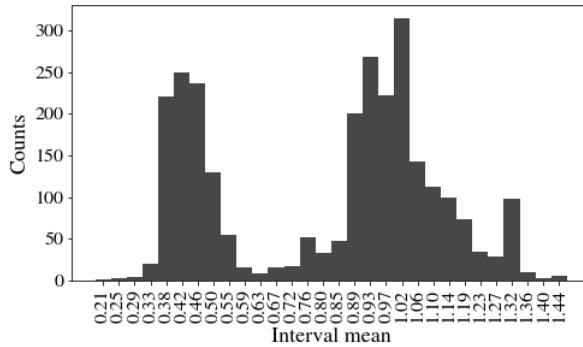
$$x_{113}^* : \frac{r_3+r_5}{r_4+r_6} = 0.90 \pm 0.34$$



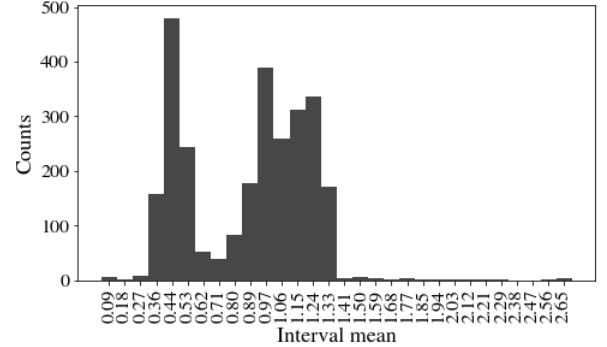
$$x_{114} : \frac{r_3+r_5}{r_5+r_6} = 0.99 \pm 1.14$$



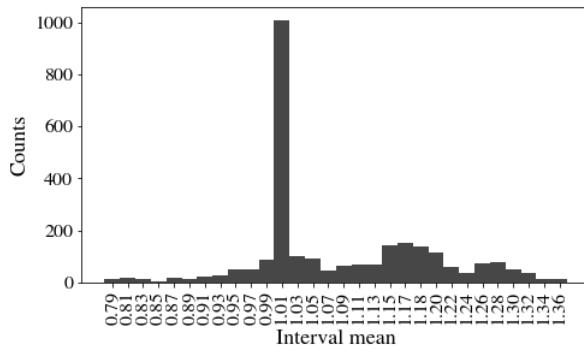
$$x_{115}^* : \frac{r_3+r_6}{r_4+r_5} = 0.78 \pm 0.35$$



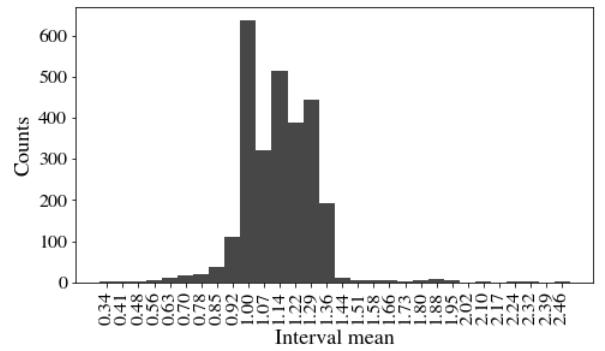
$$x_{116} : \frac{r_3+r_6}{r_4+r_6} = 0.82 \pm 0.32$$



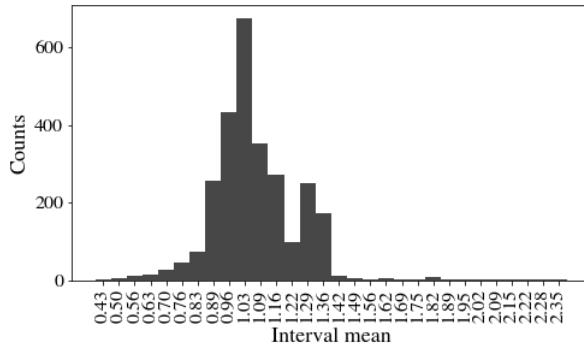
$$x_{117} : \frac{r_3+r_6}{r_5+r_6} = 0.92 \pm 1.15$$



$$x_{118}^* : \frac{r_4+r_5}{r_4+r_6} = 1.08 \pm 0.15$$

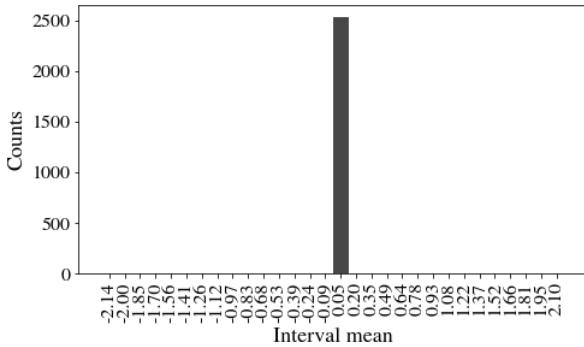


$$x_{119}^* : \frac{r_4+r_5}{r_5+r_6} = 1.17 \pm 0.68$$

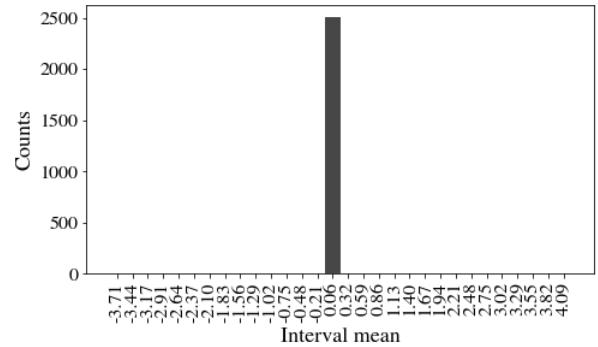


$$x_{120} : \frac{r_4+r_6}{r_5+r_6} = 1.10 \pm 0.69$$

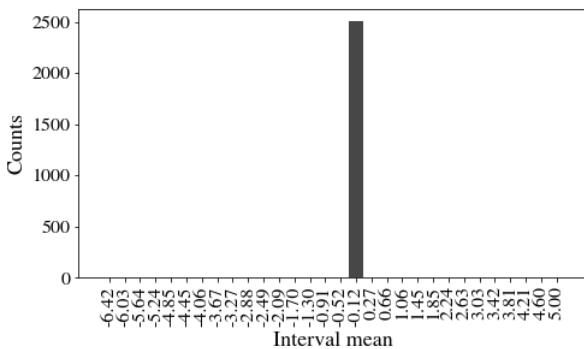
### D.2.3 Funciones de localidad



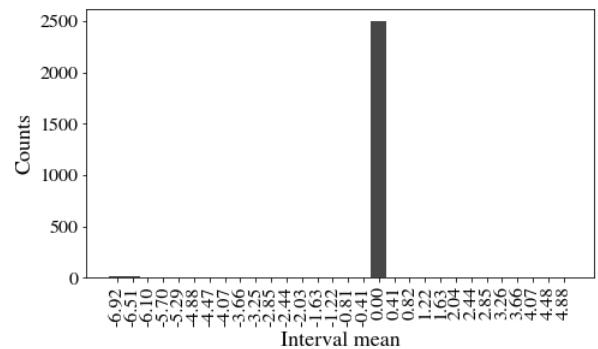
$$x_{121}^* : f_{12} = -0.06 \pm 1.12$$



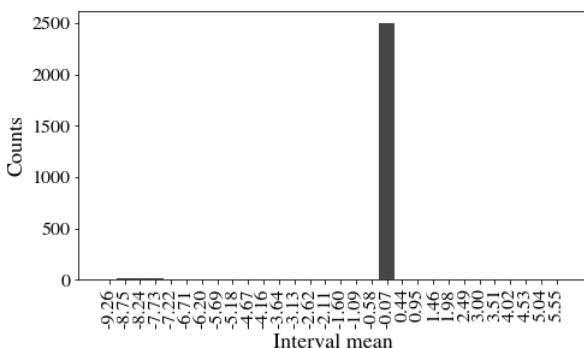
$$x_{122}^* : f_{13} = 0.15 \pm 2.05$$



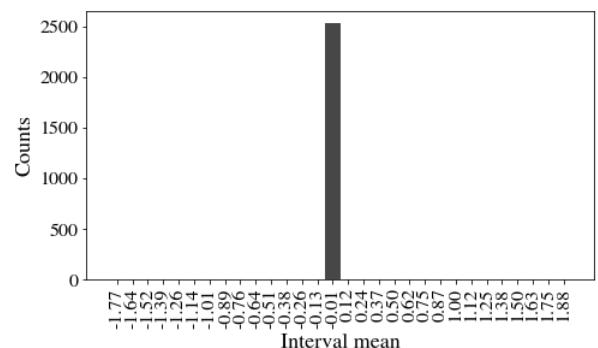
$$x_{123}^* : f_{14} = -0.72 \pm 2.95$$



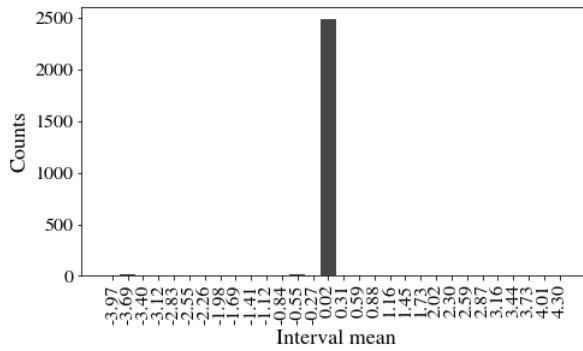
$$x_{124}^* : f_{15} = -0.82 \pm 3.25$$



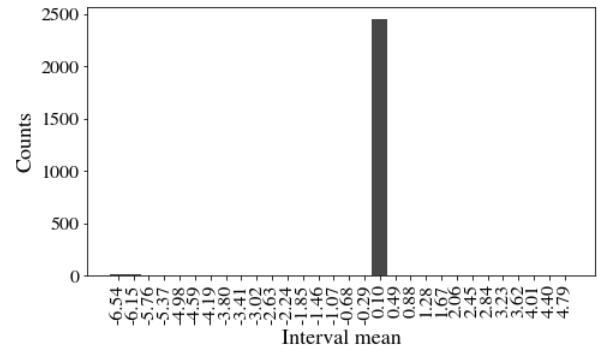
$$x_{125}^* : f_{16} = -1.05 \pm 4.28$$



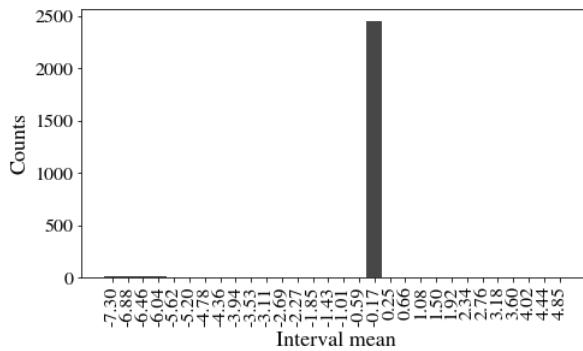
$$x_{126} : f_{21} = 0.05 \pm 0.95$$



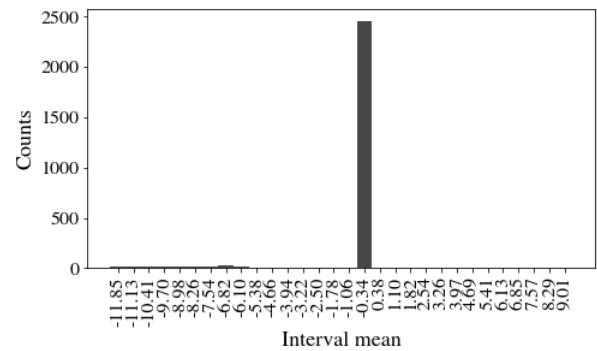
$$x_{127}^* : f_{23} = 0.19 \pm 2.16$$



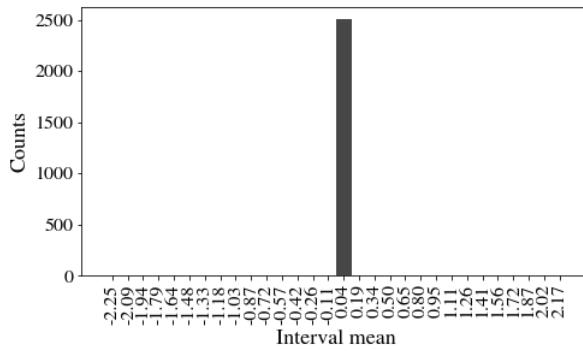
$$x_{128}^* : f_{24} = -0.67 \pm 3.03$$



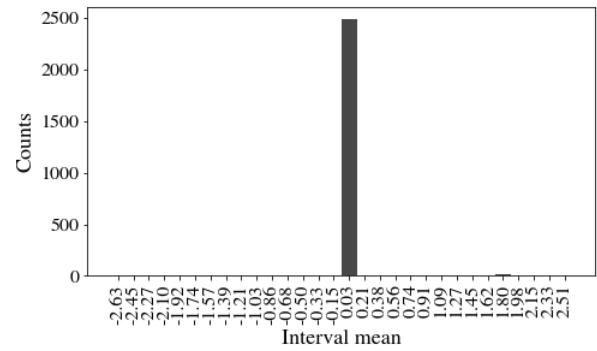
$$x_{129}^* : f_{25} = -0.84 \pm 3.34$$



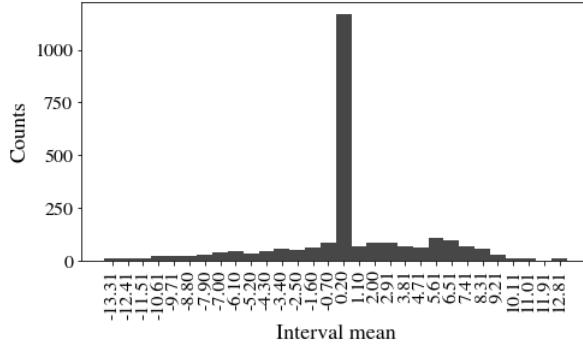
$$x_{130}^* : f_{26} = -1.33 \pm 5.46$$



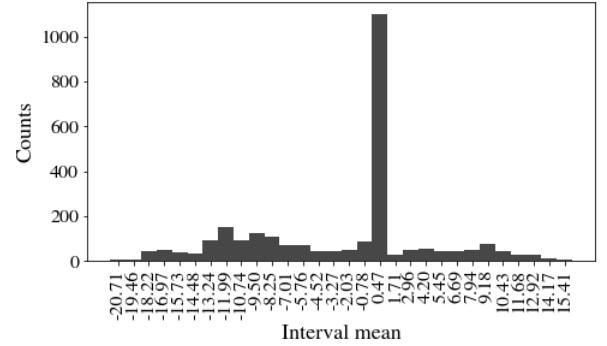
$$x_{131}^* : f_{31} = -0.04 \pm 1.19$$



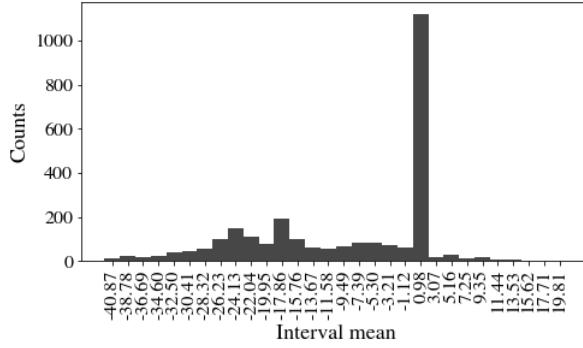
$$x_{132}^* : f_{32} = -0.06 \pm 1.33$$



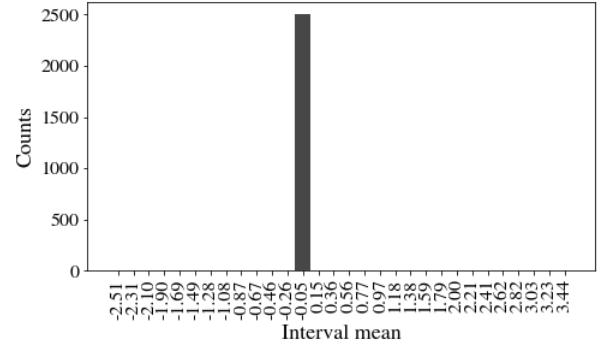
$$x_{133}^* : f_{34} = -0.17 \pm 6.86$$



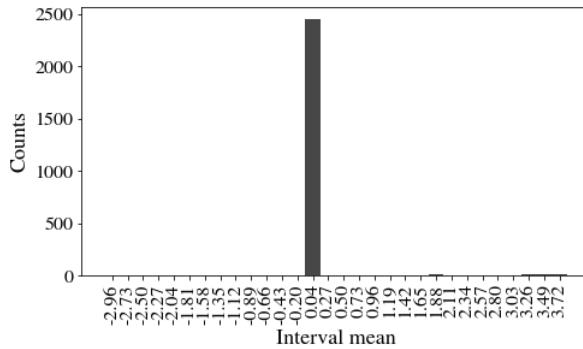
$$x_{134}^* : f_{35} = -2.69 \pm 9.40$$



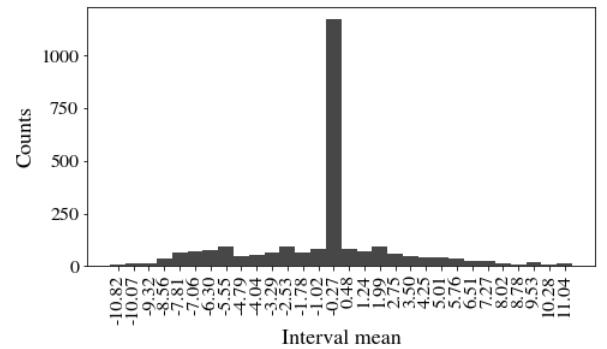
$$x_{135}^* : f_{36} = -10.00 \pm 16.03$$



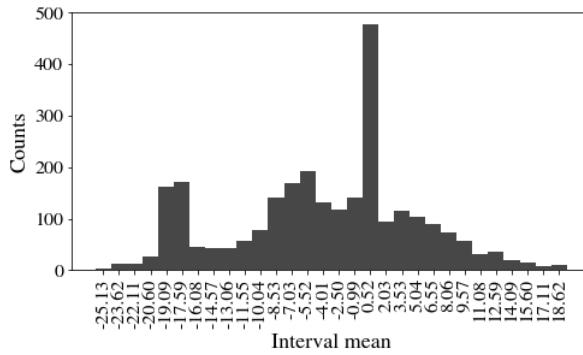
$$x_{136}^* : f_{41} = 0.40 \pm 1.61$$



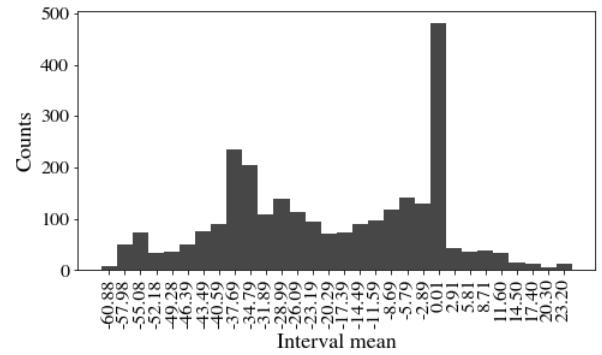
$$x_{137}^* : f_{42} = 0.39 \pm 1.75$$



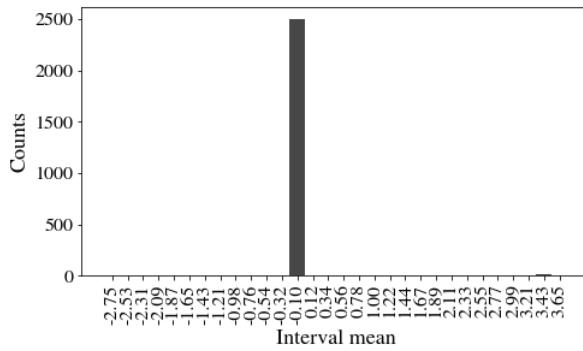
$$x_{138}^* : f_{43} = 0.04 \pm 5.78$$



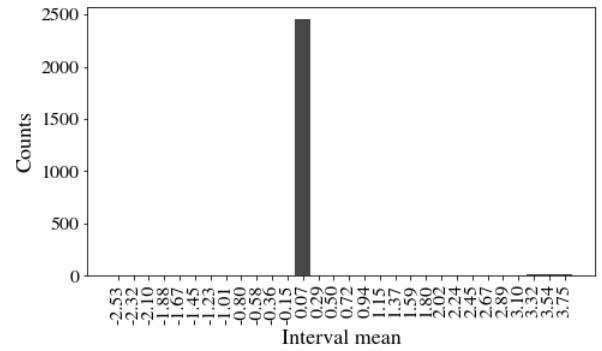
$$x_{139}^* : f_{45} = -3.31 \pm 11.43$$



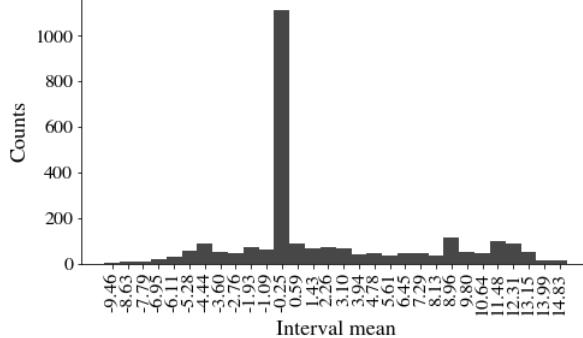
$$x_{140}^* : f_{46} = -19.05 \pm 22.04$$



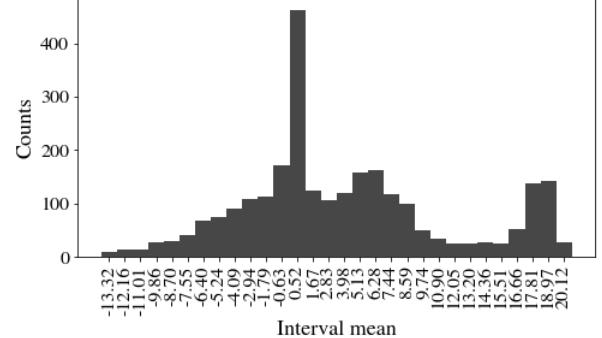
$$x_{141}^* : f_{51} = 0.43 \pm 1.67$$



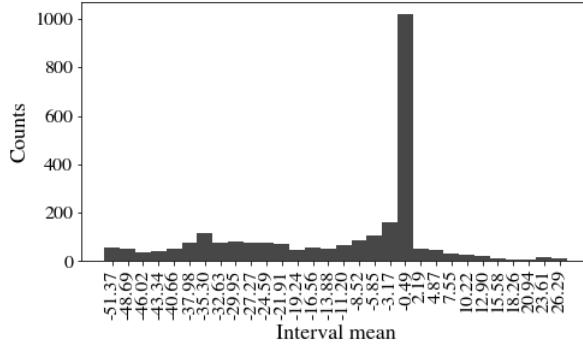
$$x_{142}^* : f_{52} = 0.42 \pm 1.72$$



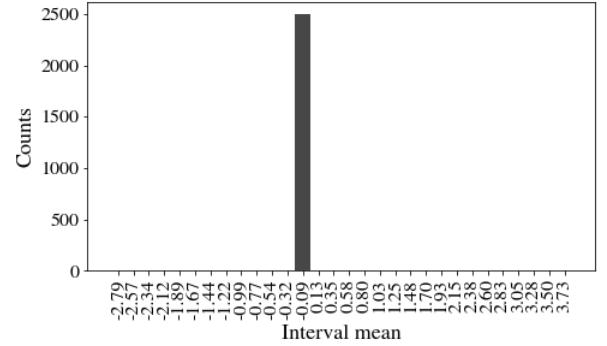
$$x_{143}^* : f_{53} = 2.62 \pm 6.35$$



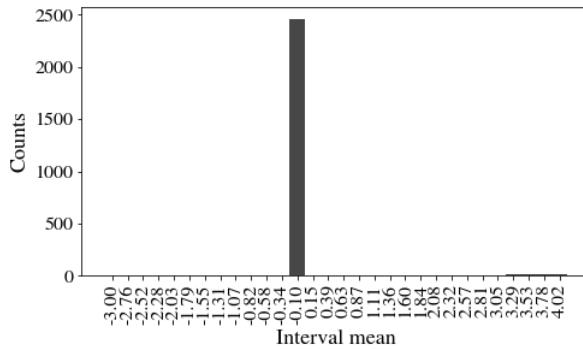
$$x_{144}^* : f_{54} = 3.39 \pm 8.75$$



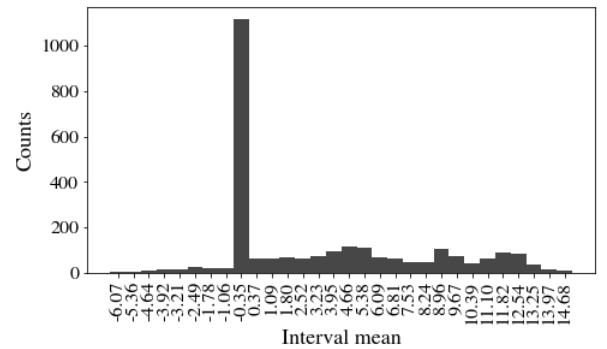
$$x_{145}^* : f_{56} = -12.52 \pm 20.13$$



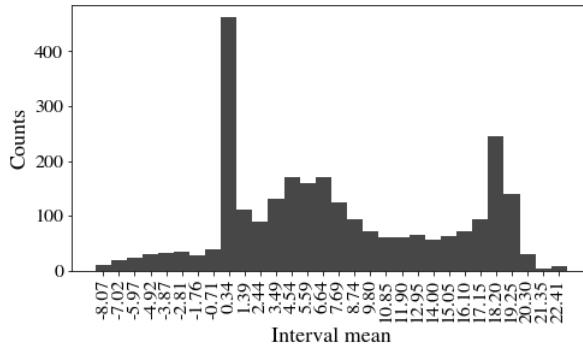
$$x_{146}^* : f_{61} = 0.46 \pm 1.69$$



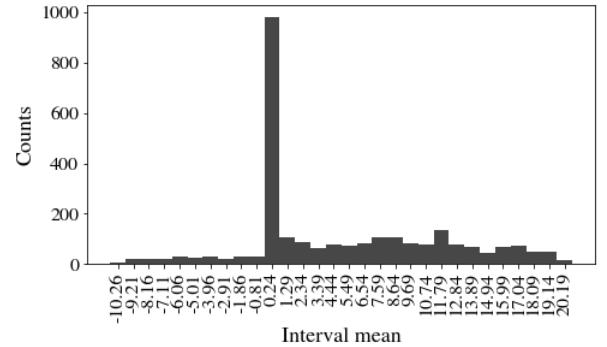
$$x_{147}^* : f_{62} = 0.51 \pm 1.82$$



$$x_{148}^* : f_{63} = 4.03 \pm 5.51$$



$$x_{149}^* : f_{64} = 7.20 \pm 7.97$$

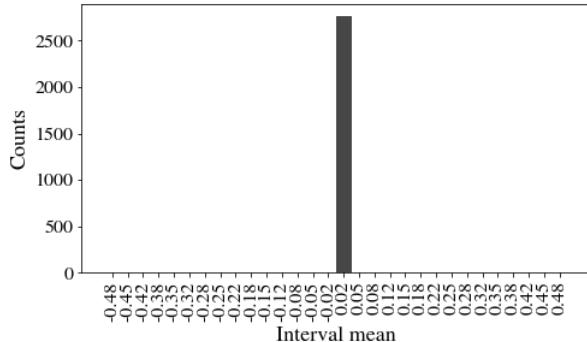


$$x_{150}^* : f_{65} = 4.96 \pm 7.93$$

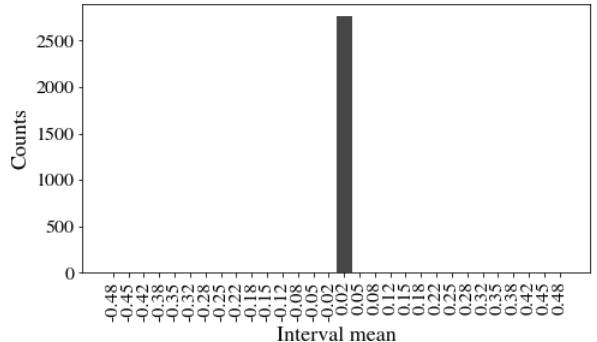


## D.3 Red Neuronal Artificial de 8 sitios

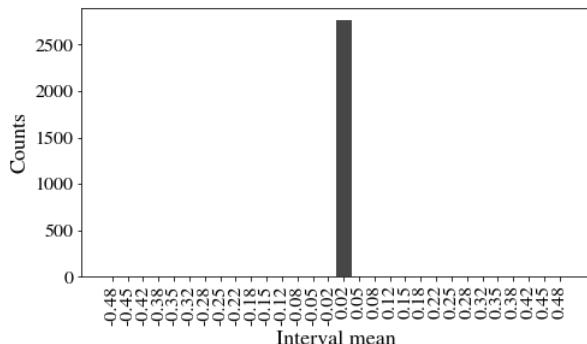
### D.3.1 Factores geométricos



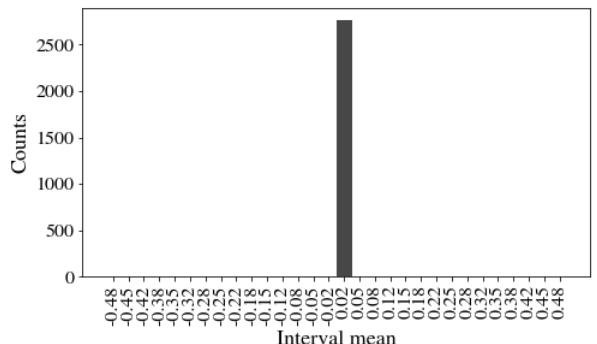
$$x_1^* : \frac{r_1}{r_2} = 0.00 \pm 0.07$$



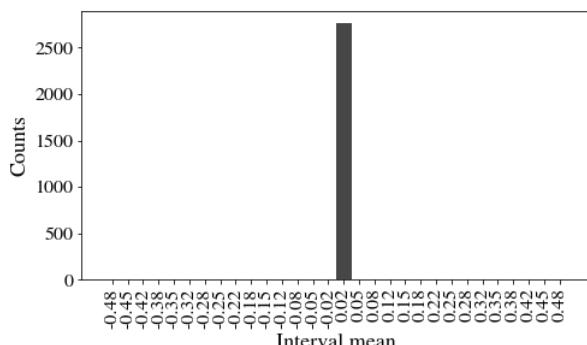
$$x_2 : \frac{r_1}{r_3} = 0.00 \pm 0.07$$



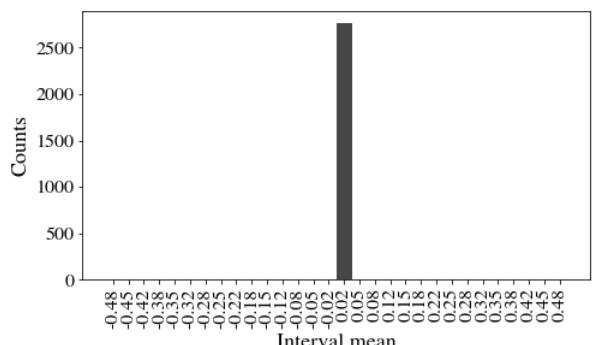
$$x_3 : \frac{r_1}{r_4} = 0.00 \pm 0.07$$



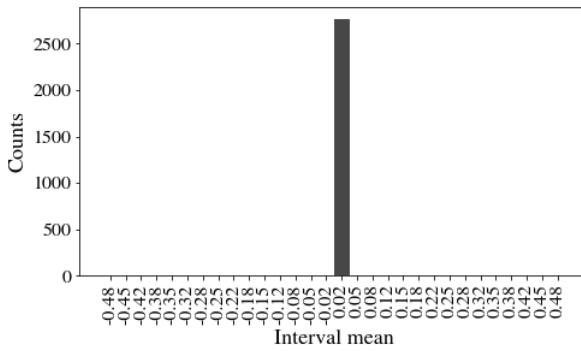
$$x_4 : \frac{r_1}{r_5} = 0.00 \pm 0.08$$



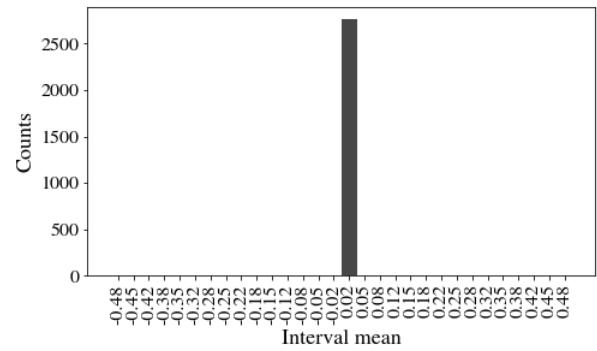
$$x_5^* : \frac{r_1}{r_6} = 0.01 \pm 0.10$$



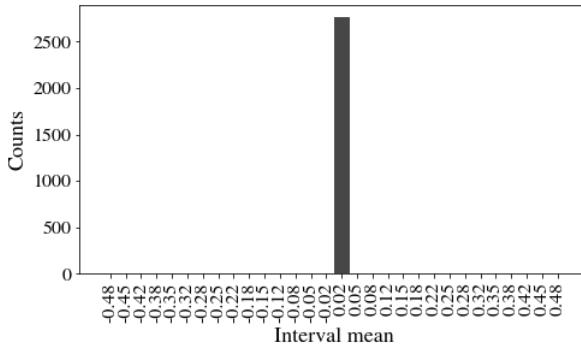
$$x_6 : \frac{r_1}{r_7} = 0.01 \pm 0.08$$



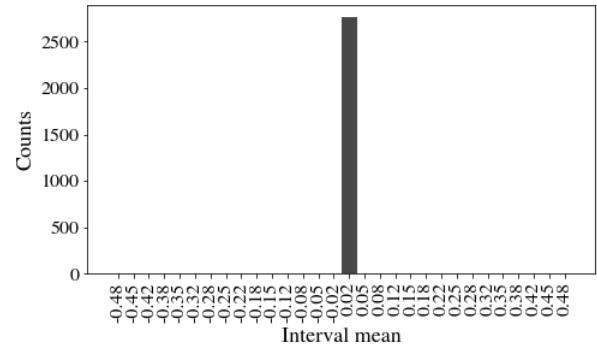
$$x_7 : \frac{r_1}{r_8} = 0.01 \pm 0.08$$



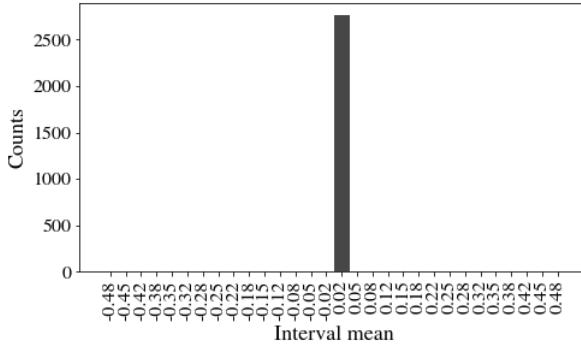
$$x_8 : \frac{r_2}{r_3} = 0.00 \pm 0.06$$



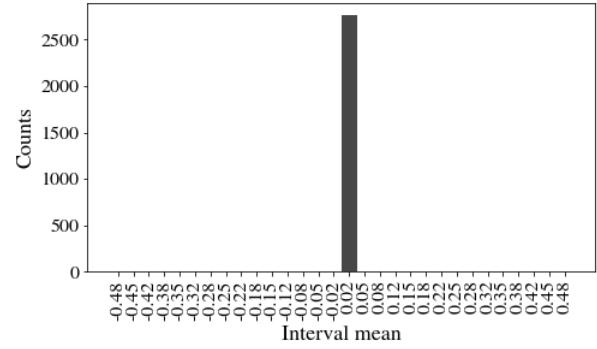
$$x_9 : \frac{r_2}{r_4} = 0.00 \pm 0.07$$



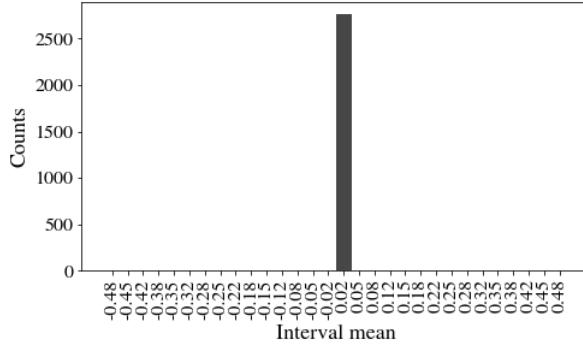
$$x_{10} : \frac{r_2}{r_5} = 0.00 \pm 0.08$$



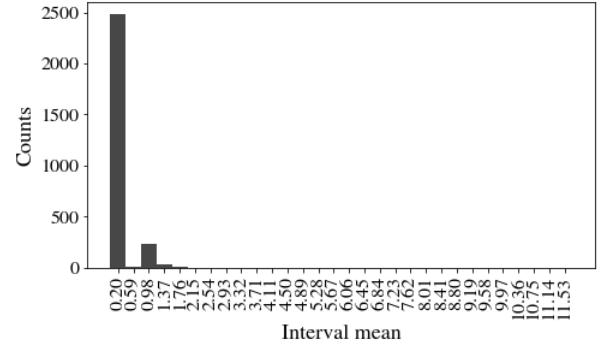
$$x_{11} : \frac{r_2}{r_6} = 0.01 \pm 0.10$$



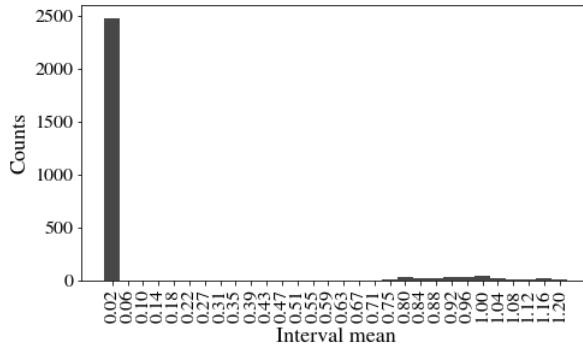
$$x_{12} : \frac{r_2}{r_7} = 0.01 \pm 0.08$$



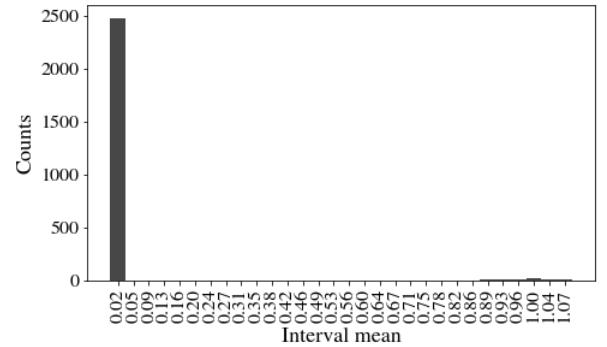
$$x_{13} : \frac{r_2}{r_8} = 0.01 \pm 0.08$$



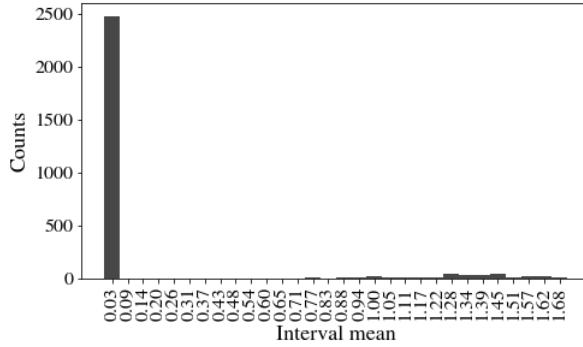
$$x_{14}^* : \frac{r_3}{r_4} = 0.24 \pm 6.33$$



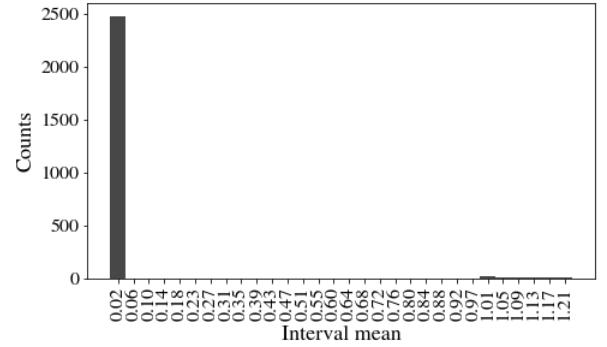
$$x_{15}^* : \frac{r_3}{r_5} = 0.12 \pm 0.56$$



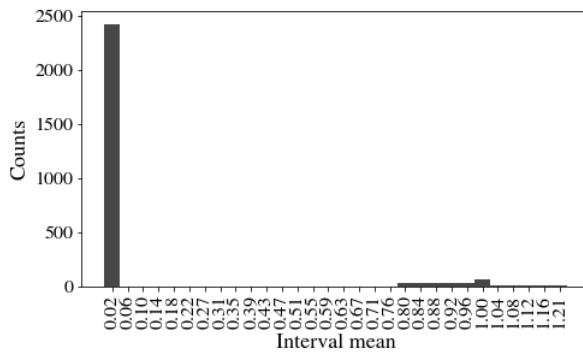
$$x_{16}^* : \frac{r_3}{r_6} = 0.14 \pm 0.47$$



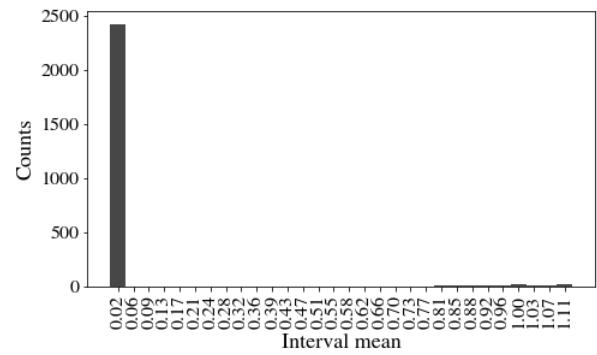
$$x_{17}^* : \frac{r_3}{r_7} = 0.16 \pm 0.78$$



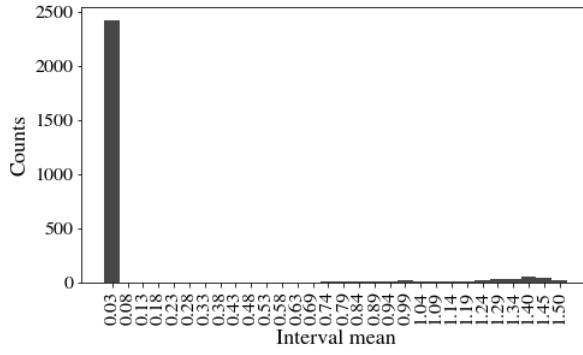
$$x_{18}^* : \frac{r_3}{r_8} = 0.15 \pm 0.54$$



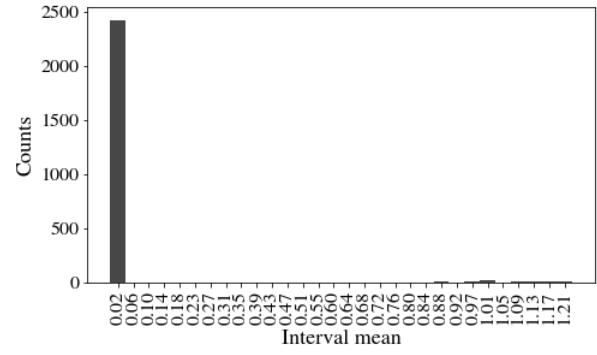
$$x_{19}^* : \frac{r_4}{r_5} = 0.14 \pm 0.55$$



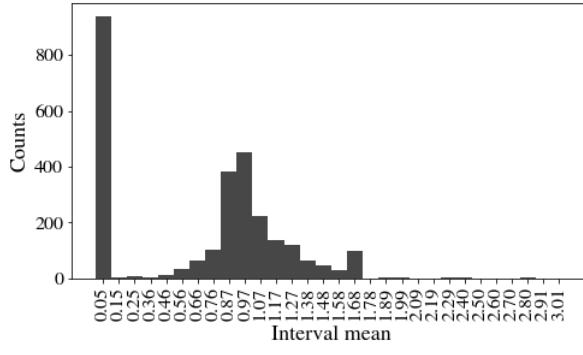
$$x_{20}^* : \frac{r_4}{r_6} = 0.16 \pm 0.49$$



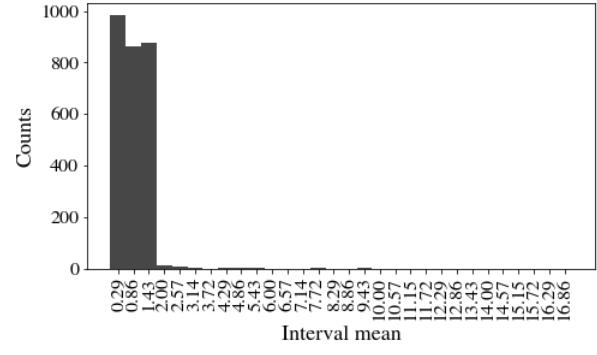
$$x_{21}^* : \frac{r_4}{r_7} = 0.17 \pm 0.68$$



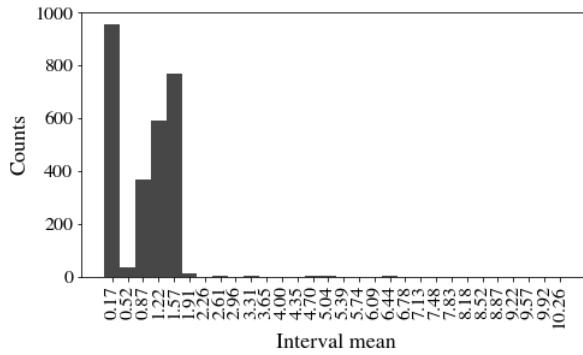
$$x_{22}^* : \frac{r_4}{r_8} = 0.17 \pm 0.53$$



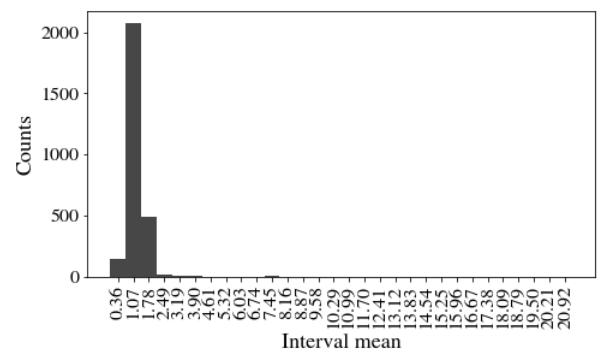
$$x_{23}^* : \frac{r_5}{r_6} = 0.76 \pm 1.21$$



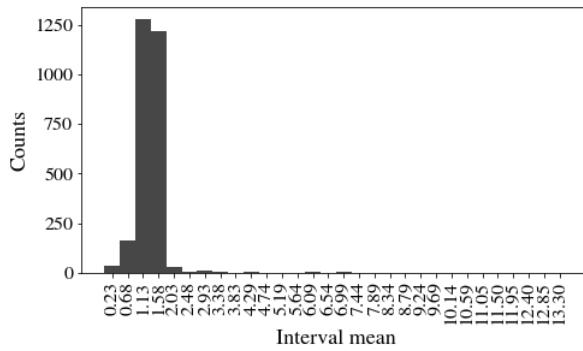
$$x_{24}^* : \frac{r_5}{r_7} = 1.12 \pm 8.38$$



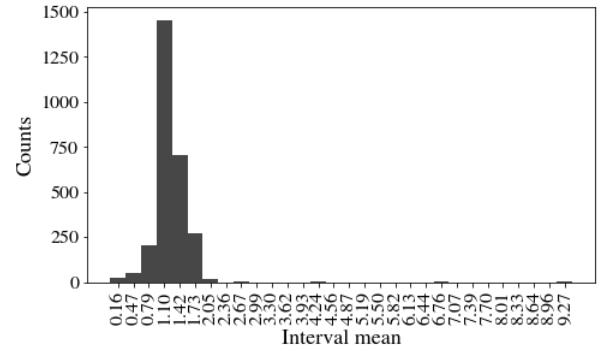
$$x_{25}^* : \frac{r_5}{r_8} = 1.31 \pm 8.17$$



$$x_{26}^* : \frac{r_6}{r_7} = 1.51 \pm 9.98$$

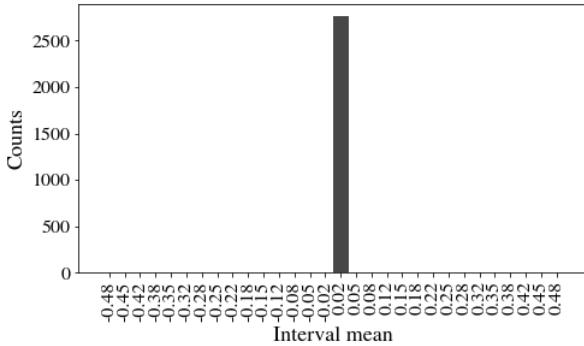


$$x_{27} : \frac{r_6}{r_8} = 1.65 \pm 6.36$$

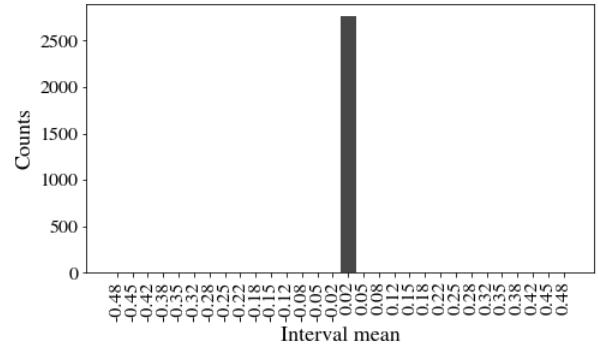


$$x_{28} : \frac{r_7}{r_8} = 1.42 \pm 5.31$$

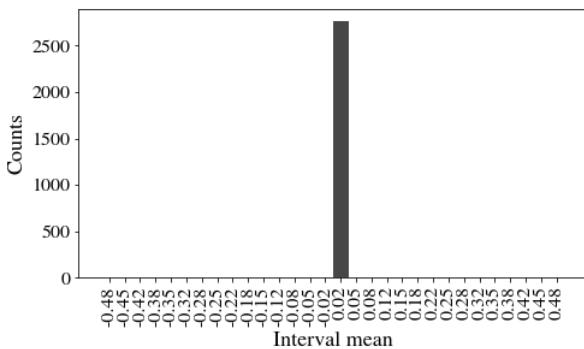
### D.3.2 Factores de empaquetamiento



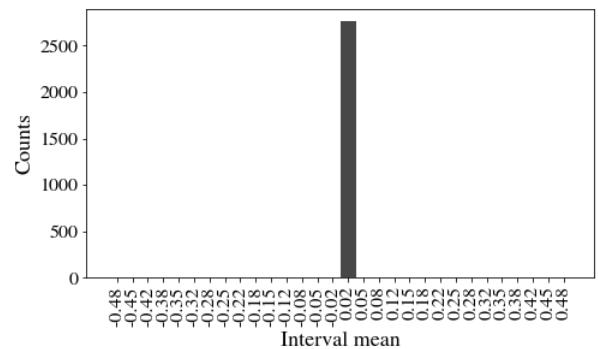
$$x_{29} : \frac{r_1+r_2}{r_1+r_3} = 0.00 \pm 0.06$$



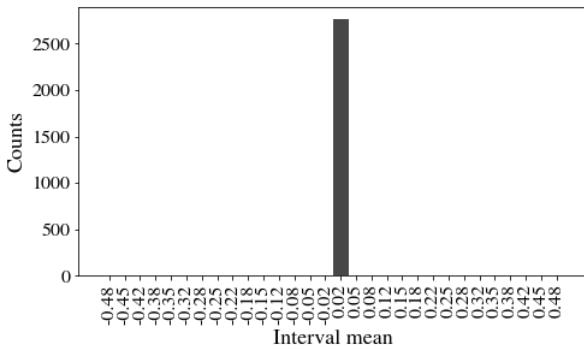
$$x_{30} : \frac{r_1+r_2}{r_1+r_4} = 0.00 \pm 0.06$$



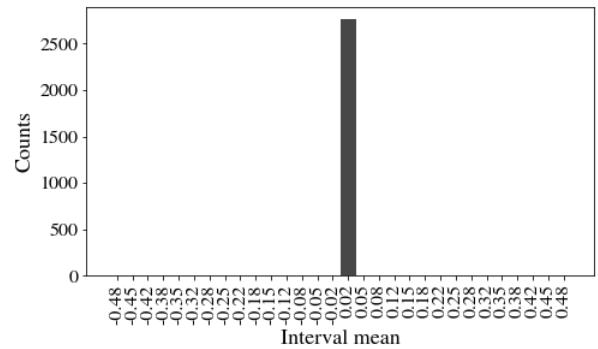
$$x_{31} : \frac{r_1+r_2}{r_1+r_5} = 0.00 \pm 0.07$$



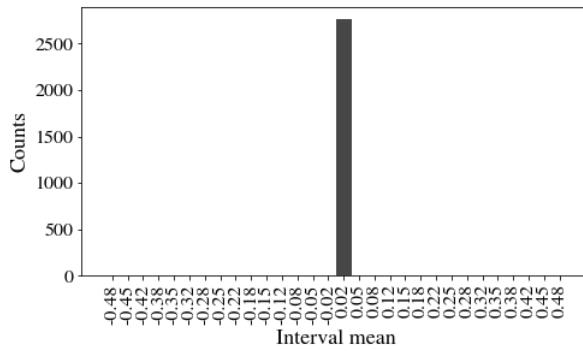
$$x_{32} : \frac{r_1+r_2}{r_1+r_6} = 0.00 \pm 0.07$$



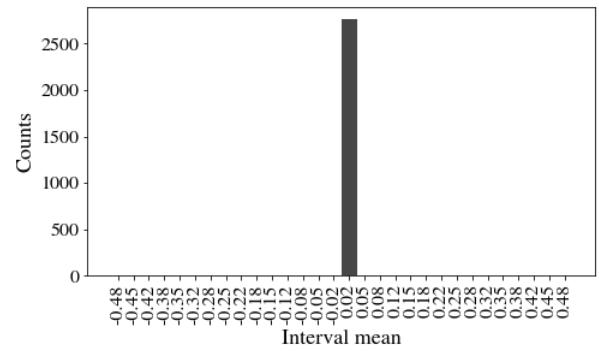
$$x_{33} : \frac{r_1+r_2}{r_1+r_7} = 0.00 \pm 0.07$$



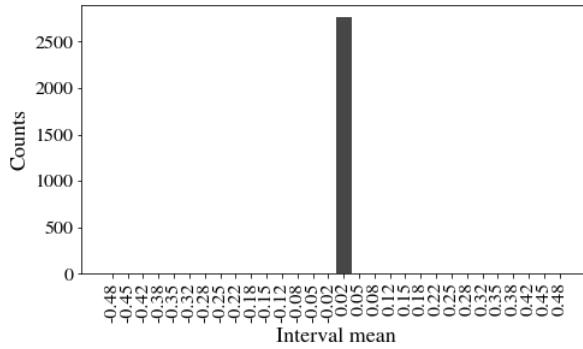
$$x_{34} : \frac{r_1+r_2}{r_1+r_8} = 0.00 \pm 0.07$$



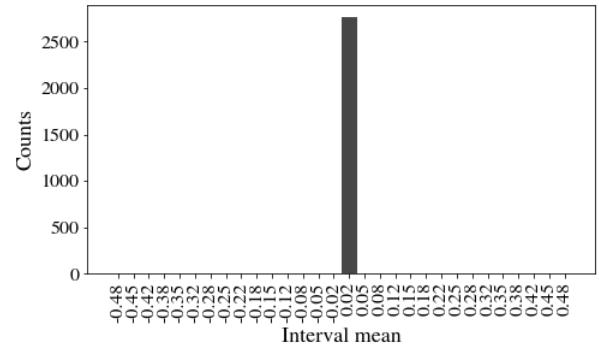
$$x_{35} : \frac{r_1+r_2}{r_2+r_3} = 0.00 \pm 0.06$$



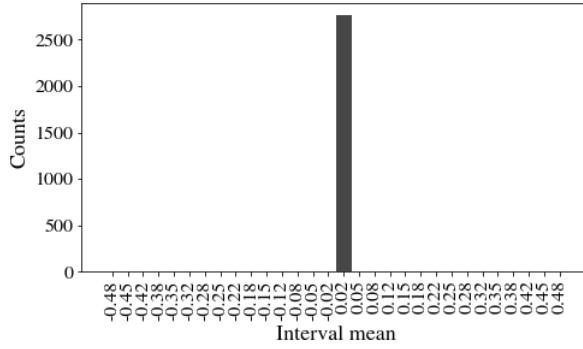
$$x_{36} : \frac{r_1+r_2}{r_2+r_4} = 0.00 \pm 0.06$$



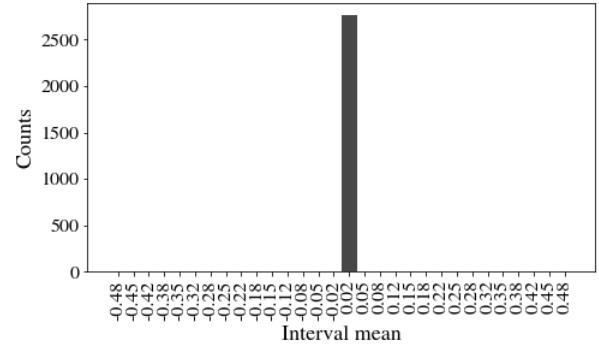
$$x_{37} : \frac{r_1+r_2}{r_2+r_5} = 0.00 \pm 0.07$$



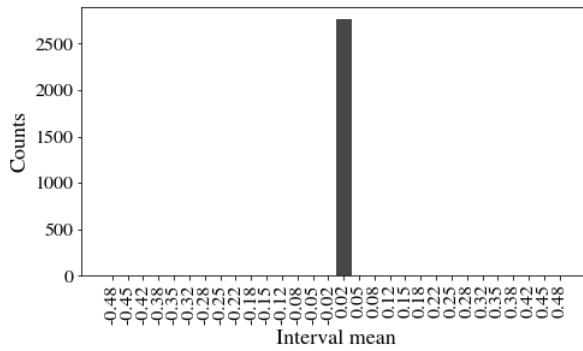
$$x_{38} : \frac{r_1+r_2}{r_2+r_6} = 0.00 \pm 0.07$$



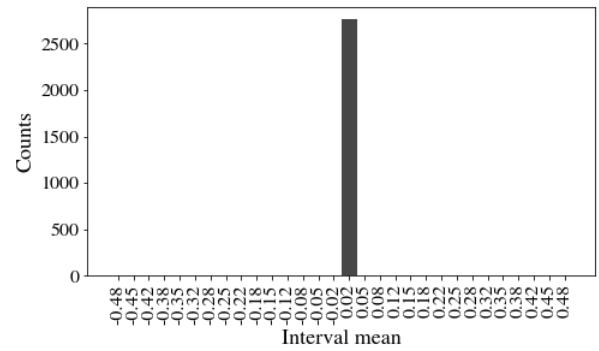
$$x_{39} : \frac{r_1+r_2}{r_2+r_7} = 0.00 \pm 0.07$$



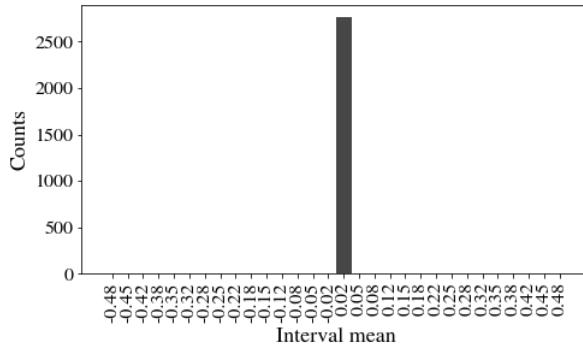
$$x_{40} : \frac{r_1+r_2}{r_2+r_8} = 0.00 \pm 0.07$$



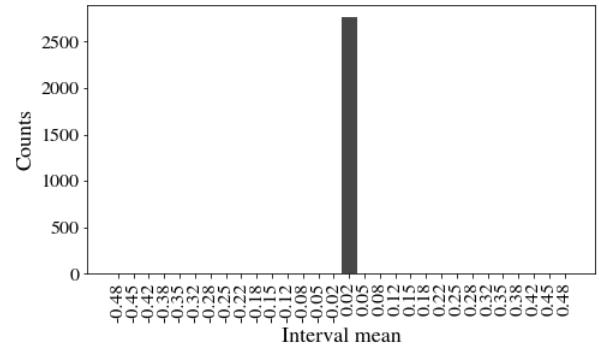
$$x_{41} : \frac{r_1+r_2}{r_3+r_4} = 0.00 \pm 0.07$$



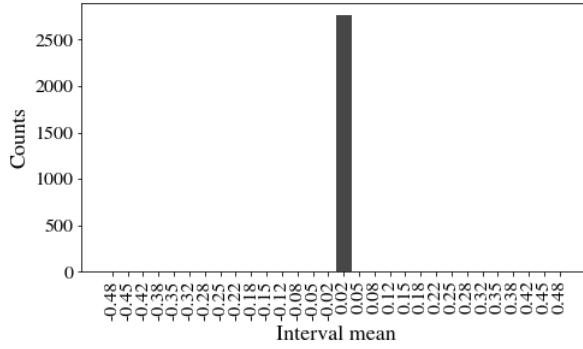
$$x_{42} : \frac{r_1+r_2}{r_3+r_5} = 0.00 \pm 0.07$$



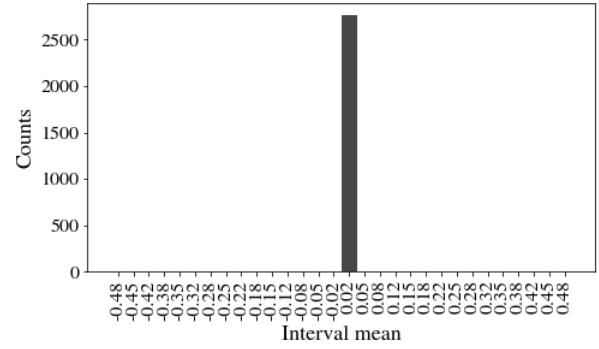
$$x_{43} : \frac{r_1+r_2}{r_3+r_6} = 0.00 \pm 0.07$$



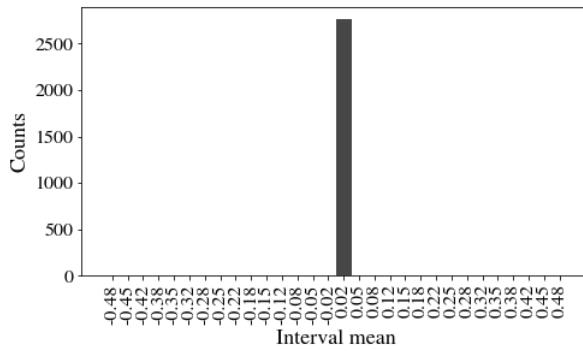
$$x_{44} : \frac{r_1+r_2}{r_3+r_7} = 0.00 \pm 0.07$$



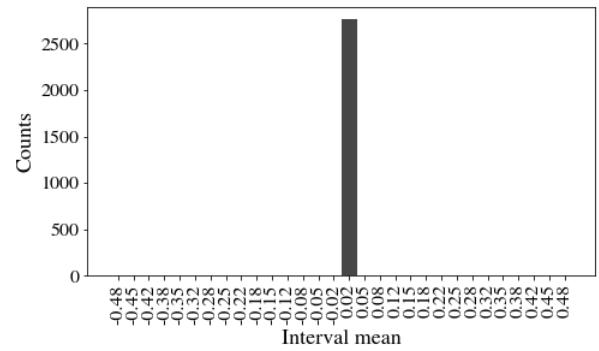
$$x_{45} : \frac{r_1+r_2}{r_3+r_8} = 0.00 \pm 0.07$$



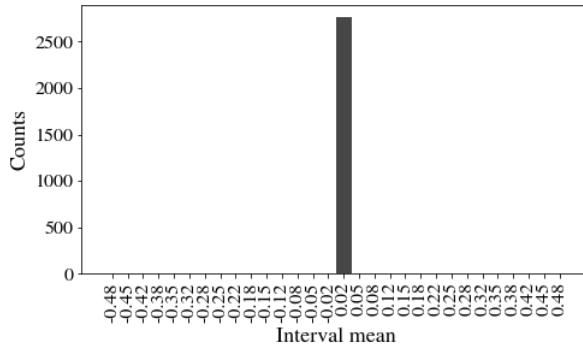
$$x_{46} : \frac{r_1+r_2}{r_4+r_5} = 0.00 \pm 0.07$$



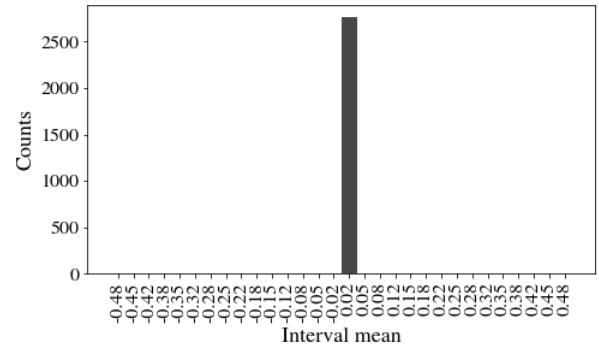
$$x_{47} : \frac{r_1+r_2}{r_4+r_6} = 0.00 \pm 0.07$$



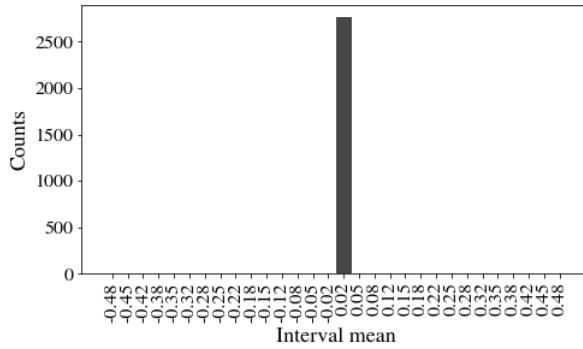
$$x_{48} : \frac{r_1+r_2}{r_4+r_7} = 0.00 \pm 0.07$$



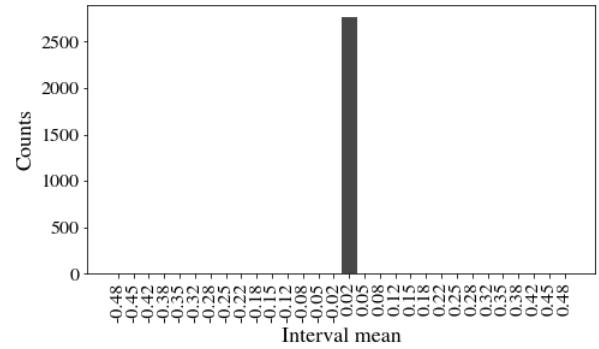
$$x_{49} : \frac{r_1+r_2}{r_4+r_8} = 0.00 \pm 0.07$$



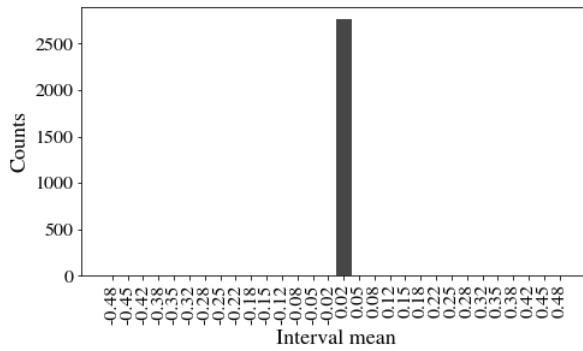
$$x_{50} : \frac{r_1+r_2}{r_5+r_6} = 0.01 \pm 0.08$$



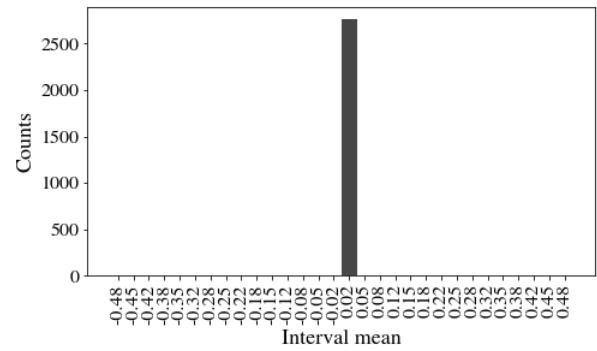
$$x_{51} : \frac{r_1+r_2}{r_5+r_7} = 0.00 \pm 0.08$$



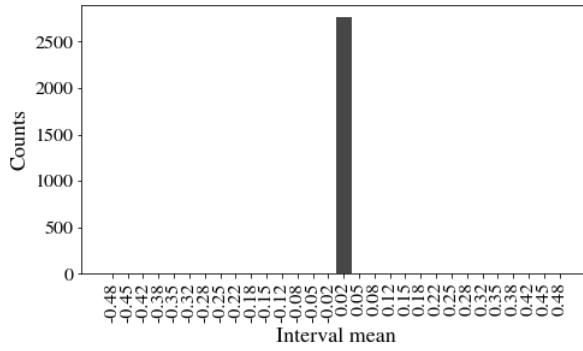
$$x_{52} : \frac{r_1+r_2}{r_5+r_8} = 0.00 \pm 0.08$$



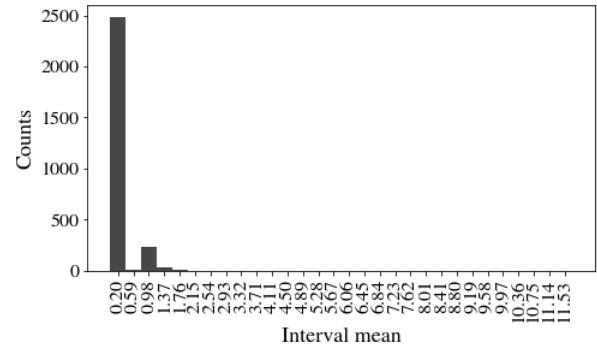
$$x_{53} : \frac{r_1+r_2}{r_6+r_7} = 0.01 \pm 0.08$$



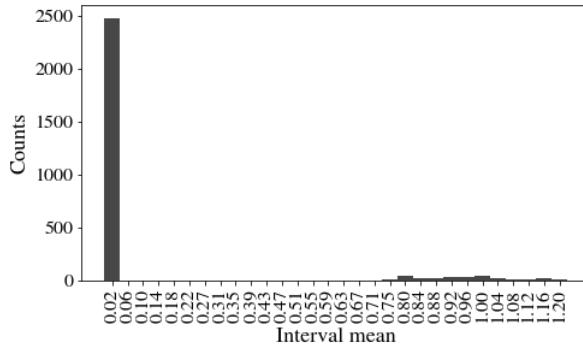
$$x_{54} : \frac{r_1+r_2}{r_6+r_8} = 0.01 \pm 0.08$$



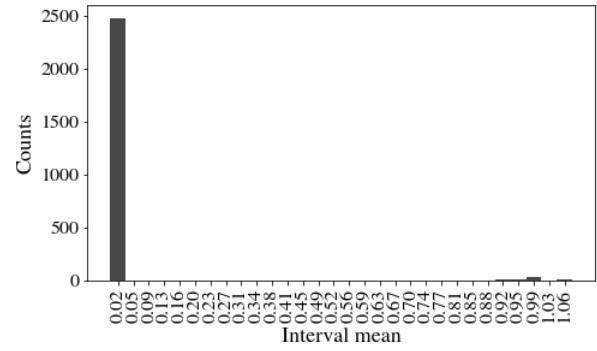
$$x_{55} : \frac{r_1+r_2}{r_7+r_8} = 0.01 \pm 0.08$$



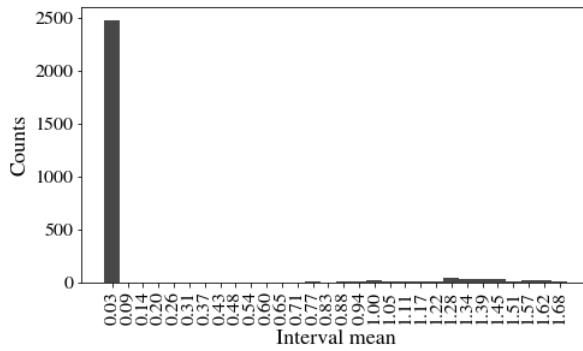
$$x_{56} : \frac{r_1+r_3}{r_1+r_4} = 0.24 \pm 6.33$$



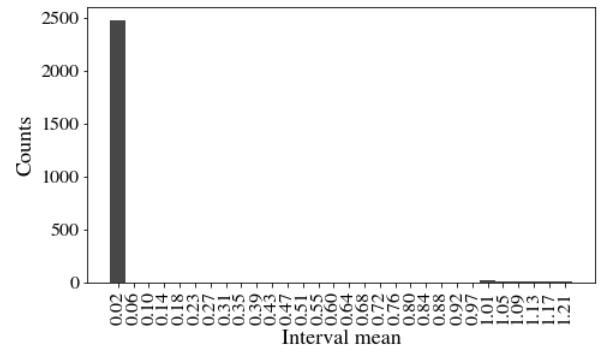
$$x_{57} : \frac{r_1+r_3}{r_1+r_5} = 0.12 \pm 0.55$$



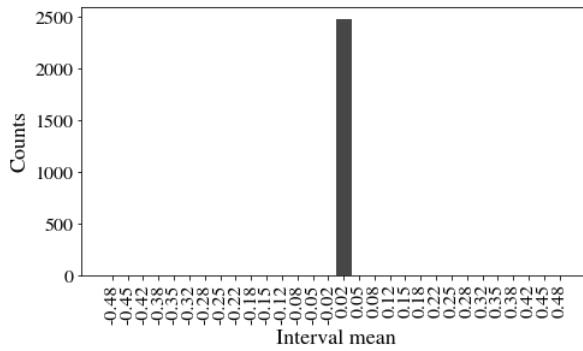
$$x_{58} : \frac{r_1+r_3}{r_1+r_6} = 0.14 \pm 0.47$$



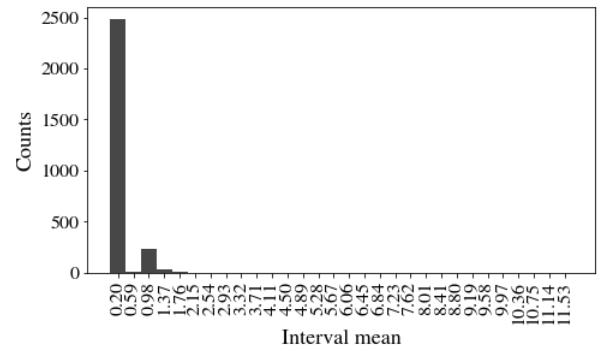
$$x_{59} : \frac{r_1+r_3}{r_1+r_7} = 0.15 \pm 0.78$$



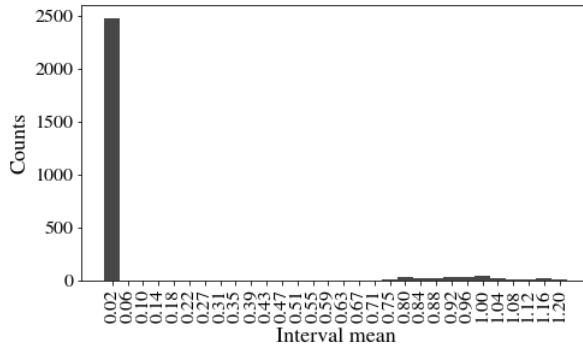
$$x_{60} : \frac{r_1+r_3}{r_1+r_8} = 0.15 \pm 0.54$$



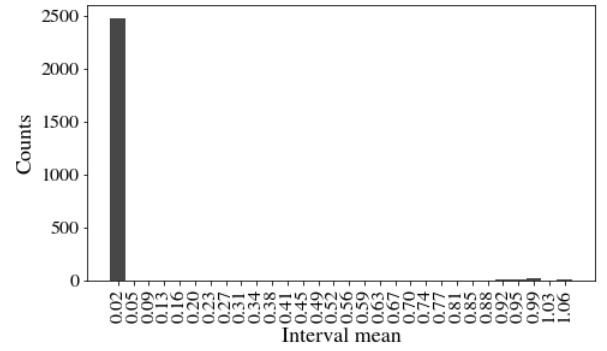
$$x_{61}^* : \frac{r_1+r_3}{r_2+r_3} = 0.11 \pm 0.31$$



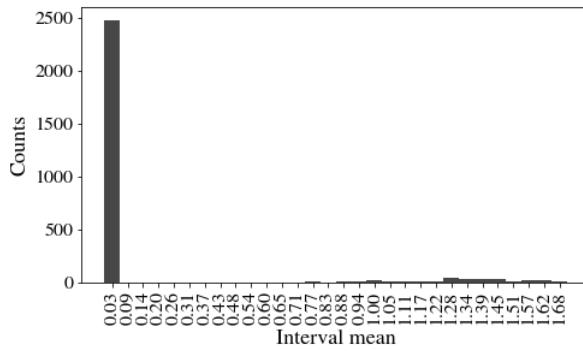
$$x_{62} : \frac{r_1+r_3}{r_2+r_4} = 0.24 \pm 6.33$$



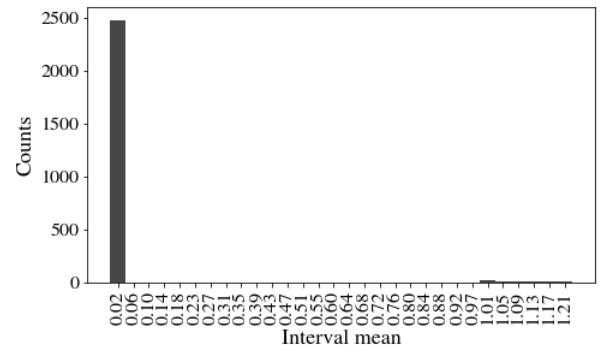
$$x_{63} : \frac{r_1+r_3}{r_2+r_5} = 0.12 \pm 0.55$$



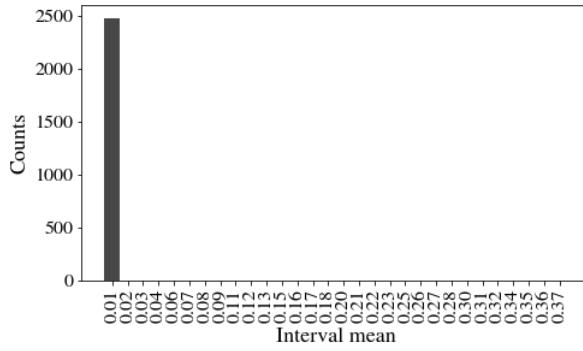
$$x_{64} : \frac{r_1+r_3}{r_2+r_6} = 0.14 \pm 0.47$$



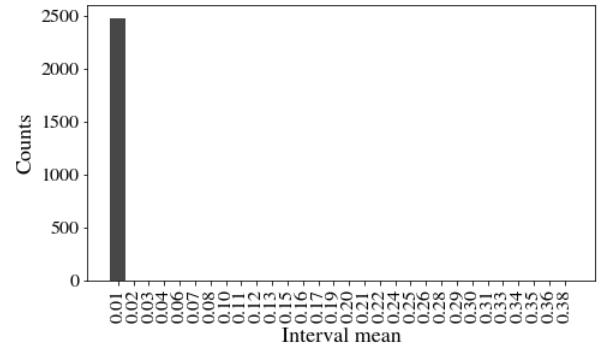
$$x_{65} : \frac{r_1+r_3}{r_2+r_7} = 0.15 \pm 0.78$$



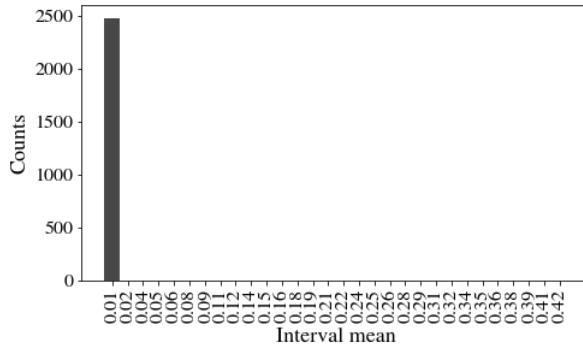
$$x_{66} : \frac{r_1+r_3}{r_2+r_8} = 0.15 \pm 0.54$$



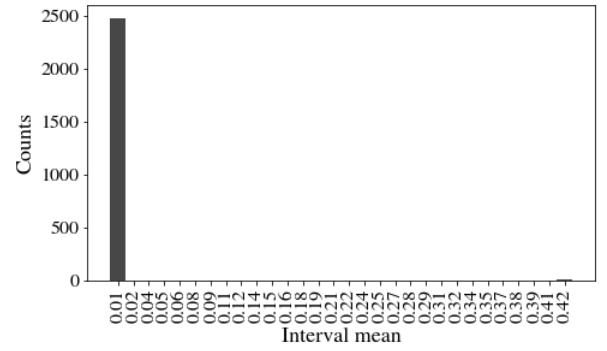
$$x_{67} : \frac{r_1+r_3}{r_3+r_4} = 0.06 \pm 0.17$$



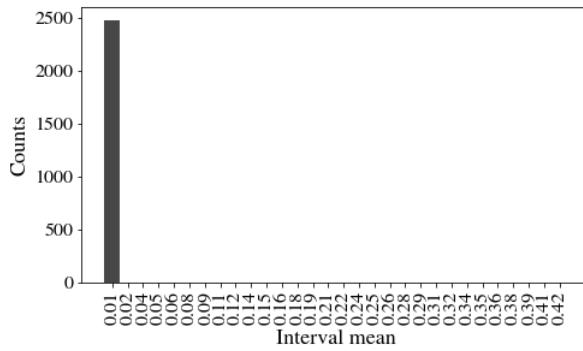
$$x_{68} : \frac{r_1+r_3}{r_3+r_5} = 0.05 \pm 0.17$$



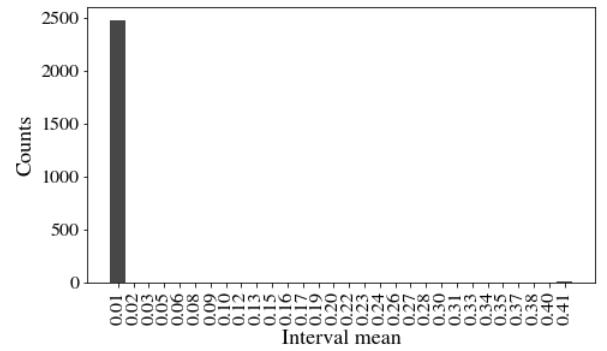
$$x_{69} : \frac{r_1+r_3}{r_3+r_6} = 0.06 \pm 0.18$$



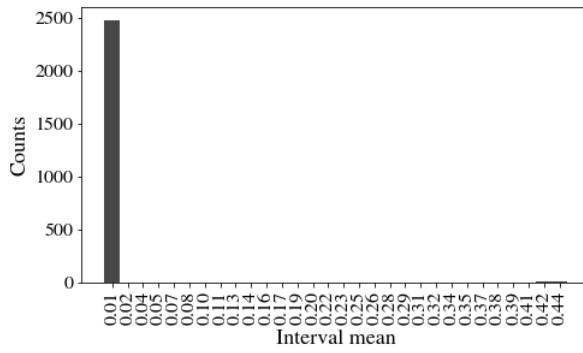
$$x_{70} : \frac{r_1+r_3}{r_3+r_7} = 0.06 \pm 0.19$$



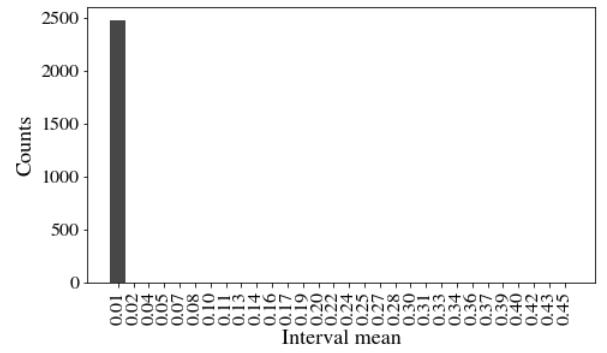
$$x_{71} : \frac{r_1+r_3}{r_3+r_8} = 0.06 \pm 0.19$$



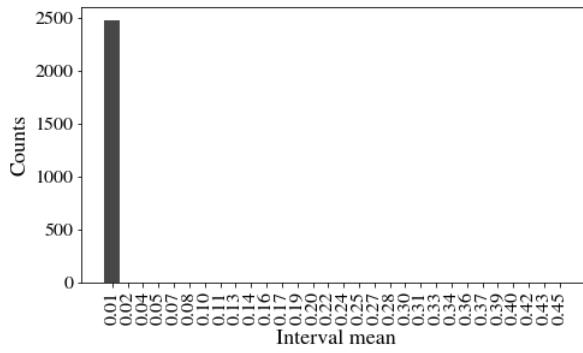
$$x_{72} : \frac{r_1+r_3}{r_4+r_5} = 0.06 \pm 0.18$$



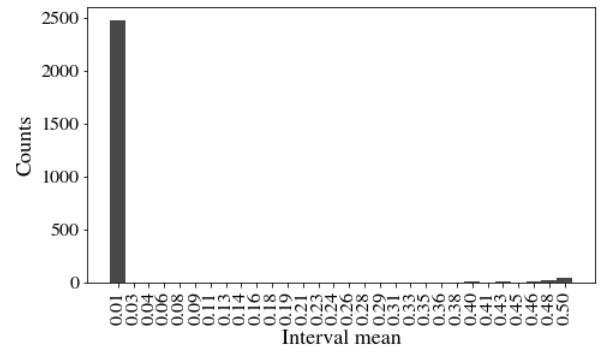
$$x_{73} : \frac{r_1+r_3}{r_4+r_6} = 0.06 \pm 0.19$$



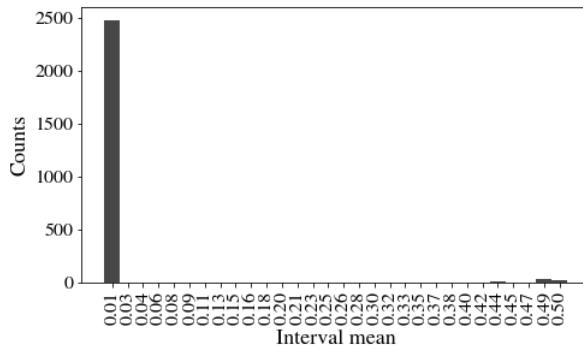
$$x_{74} : \frac{r_1+r_3}{r_4+r_7} = 0.06 \pm 0.20$$



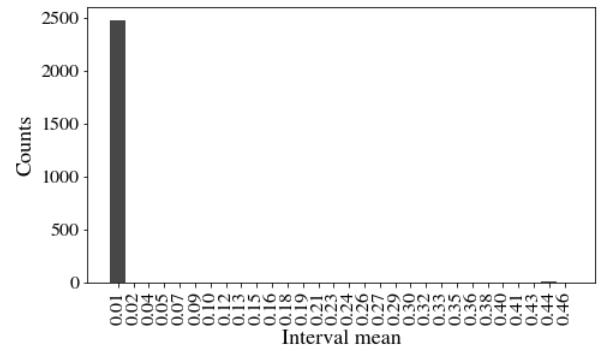
$$x_{75} : \frac{r_1+r_3}{r_4+r_8} = 0.06 \pm 0.20$$



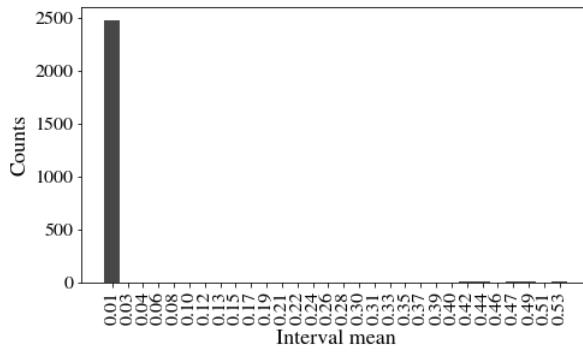
$$x_{76}^* : \frac{r_1+r_3}{r_5+r_6} = 0.06 \pm 0.22$$



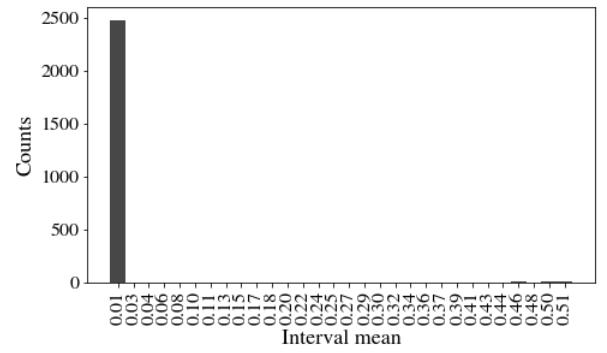
$$x_{77} : \frac{r_1+r_3}{r_5+r_7} = 0.06 \pm 0.22$$



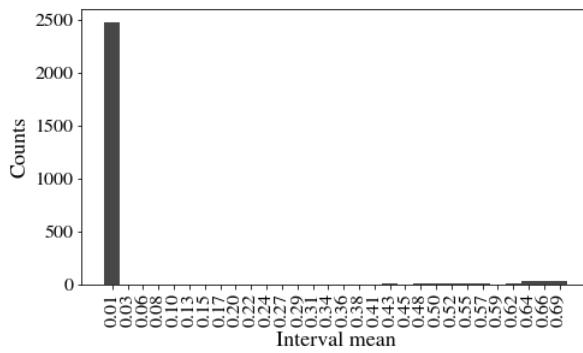
$$x_{78} : \frac{r_1+r_3}{r_5+r_8} = 0.06 \pm 0.20$$



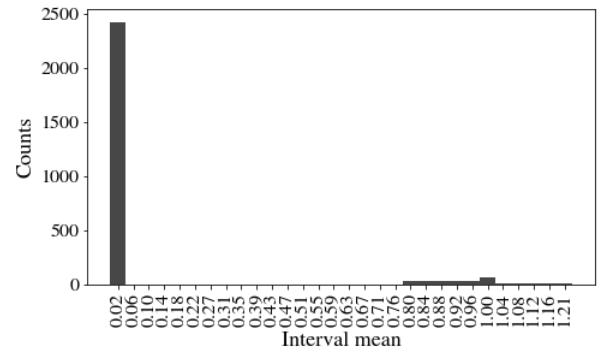
$$x_{79} : \frac{r_1+r_3}{r_6+r_7} = 0.07 \pm 0.23$$



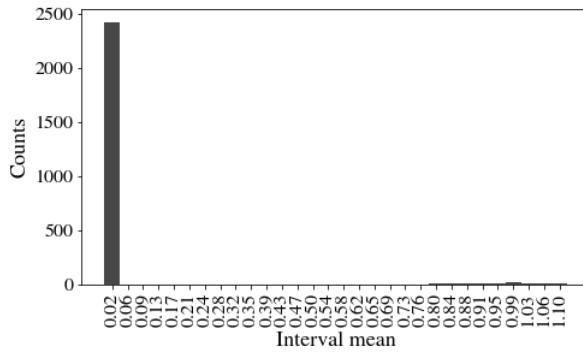
$$x_{80} : \frac{r_1+r_3}{r_6+r_8} = 0.07 \pm 0.23$$



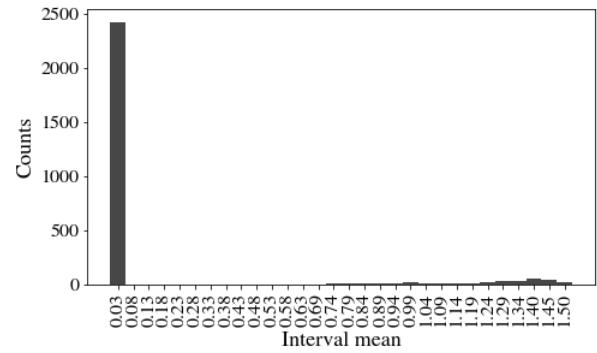
$$x_{81} : \frac{r_1+r_3}{r_7+r_8} = 0.08 \pm 0.31$$



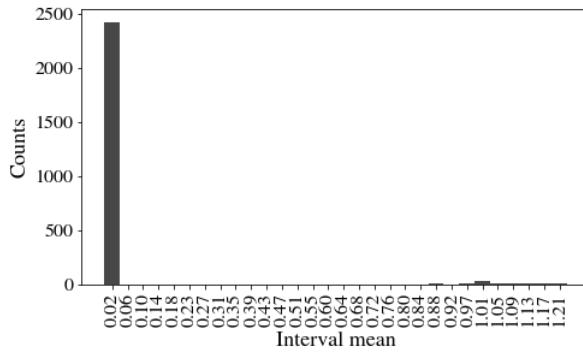
$$x_{82} : \frac{r_1+r_4}{r_1+r_5} = 0.14 \pm 0.55$$



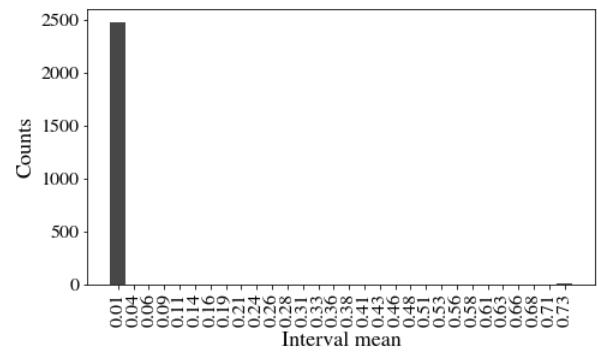
$$x_{83} : \frac{r_1+r_4}{r_1+r_6} = 0.16 \pm 0.48$$



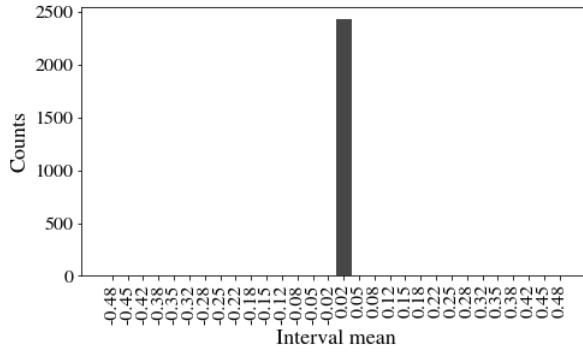
$$x_{84} : \frac{r_1+r_4}{r_1+r_7} = 0.17 \pm 0.68$$



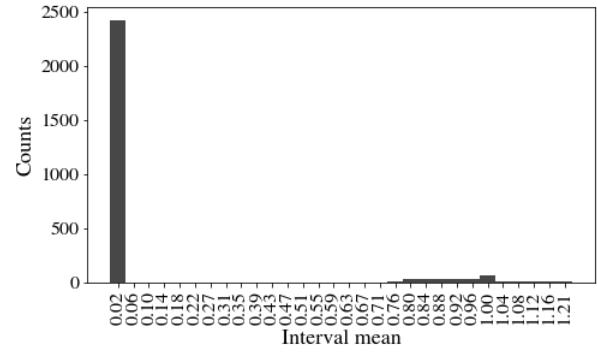
$$x_{85} : \frac{r_1+r_4}{r_1+r_8} = 0.17 \pm 0.53$$



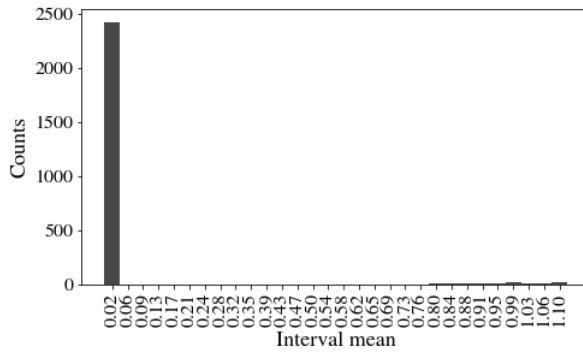
$$x_{86}^* : \frac{r_1+r_4}{r_2+r_3} = 0.11 \pm 0.32$$



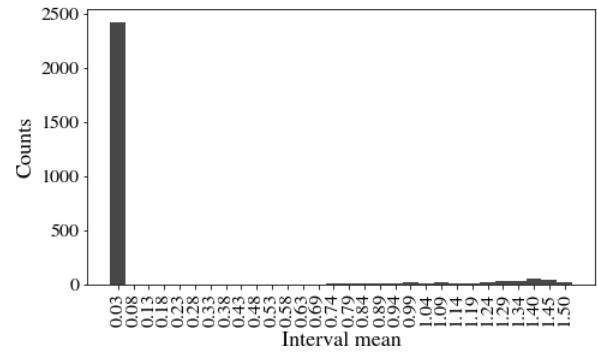
$$x_{87}^* : \frac{r_1+r_4}{r_2+r_4} = 0.12 \pm 0.33$$



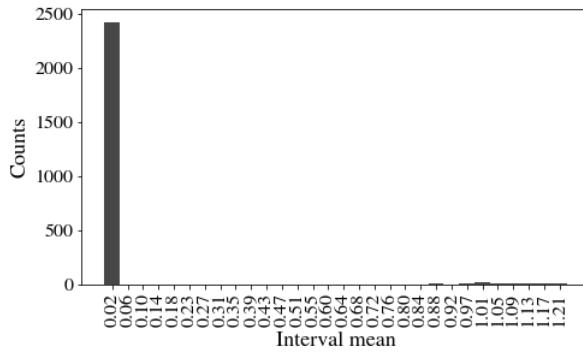
$$x_{88} : \frac{r_1+r_4}{r_2+r_5} = 0.14 \pm 0.55$$



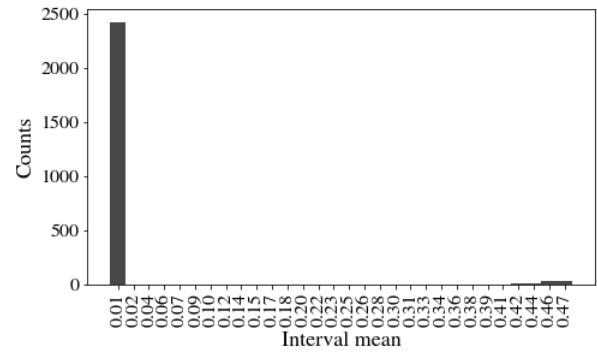
$$x_{89} : \frac{r_1+r_4}{r_2+r_6} = 0.16 \pm 0.48$$



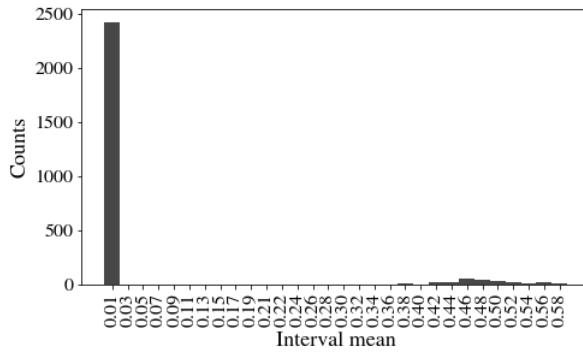
$$x_{90} : \frac{r_1+r_4}{r_2+r_7} = 0.17 \pm 0.68$$



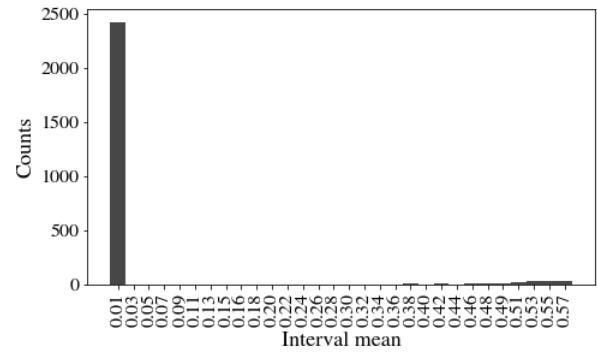
$$x_{91} : \frac{r_1+r_4}{r_2+r_8} = 0.17 \pm 0.53$$



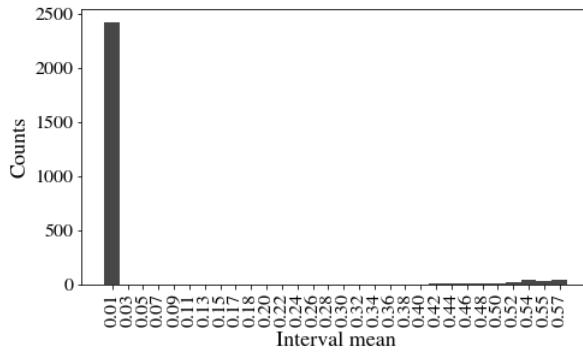
$$x_{92}^* : \frac{r_1+r_4}{r_3+r_4} = 0.07 \pm 0.20$$



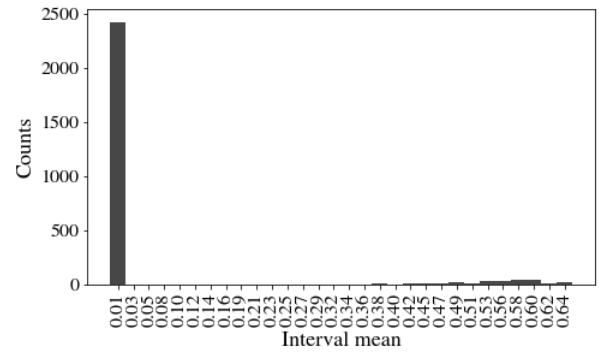
$$x_{93}^* : \frac{r_1+r_4}{r_3+r_5} = 0.08 \pm 0.26$$



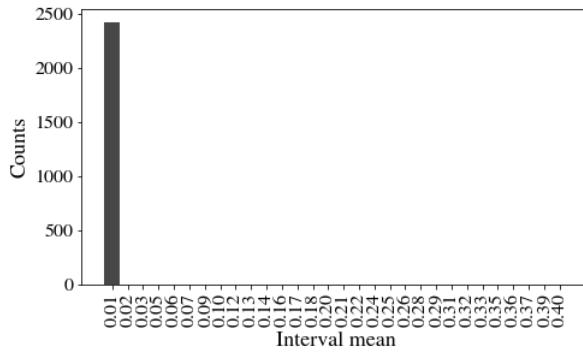
$$x_{94} : \frac{r_1+r_4}{r_3+r_6} = 0.08 \pm 0.25$$



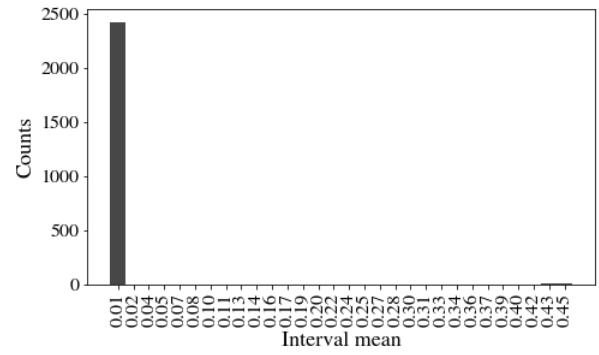
$$x_{95} : \frac{r_1+r_4}{r_3+r_7} = 0.08 \pm 0.25$$



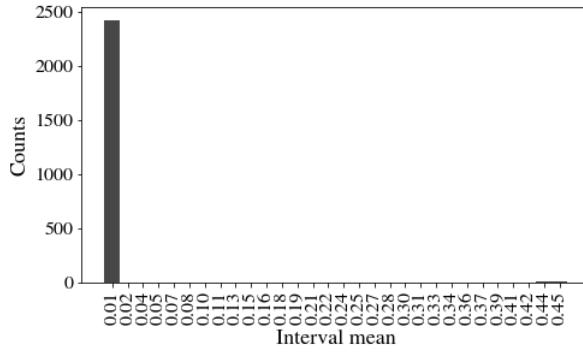
$$x_{96}^* : \frac{r_1+r_4}{r_3+r_8} = 0.09 \pm 0.28$$



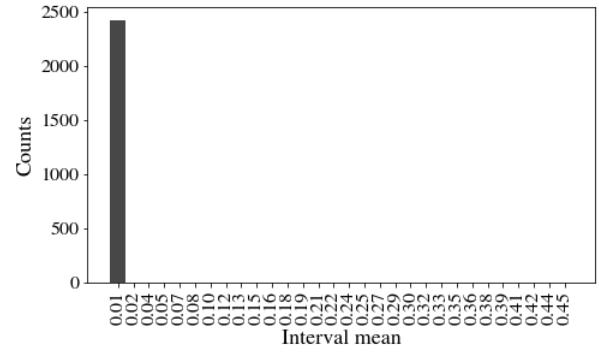
$$x_{97} : \frac{r_1+r_4}{r_4+r_5} = 0.06 \pm 0.18$$



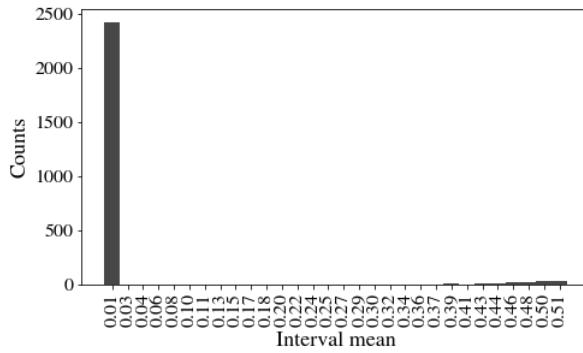
$$x_{98} : \frac{r_1+r_4}{r_4+r_6} = 0.07 \pm 0.19$$



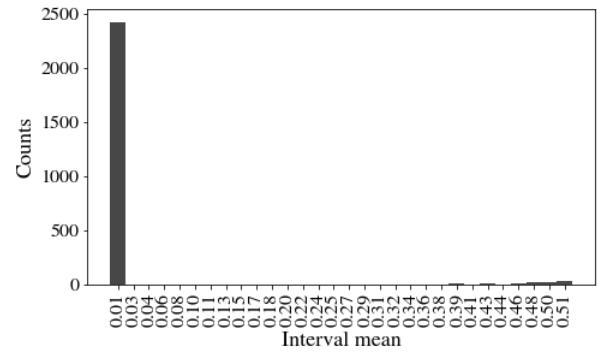
$$x_{99} : \frac{r_1+r_4}{r_4+r_7} = 0.07 \pm 0.19$$



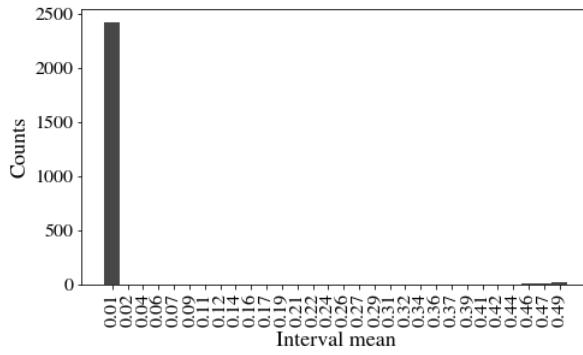
$$x_{100} : \frac{r_1+r_4}{r_4+r_8} = 0.07 \pm 0.20$$



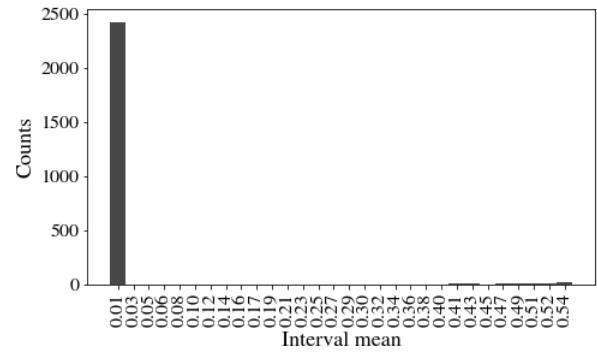
$$x_{101}^* : \frac{r_1+r_4}{r_5+r_6} = 0.07 \pm 0.23$$



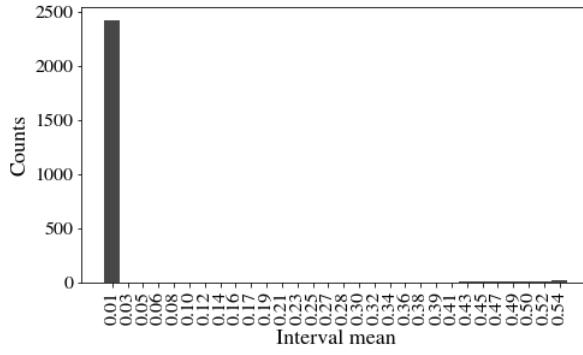
$$x_{102} : \frac{r_1+r_4}{r_5+r_7} = 0.07 \pm 0.23$$



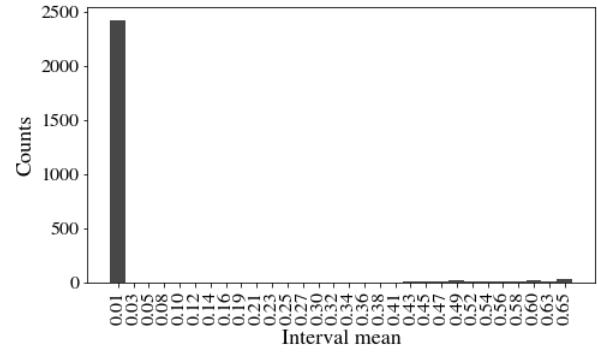
$$x_{103} : \frac{r_1+r_4}{r_5+r_8} = 0.07 \pm 0.21$$



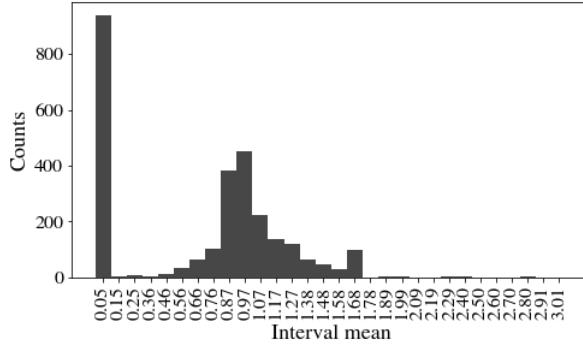
$$x_{104} : \frac{r_1+r_4}{r_6+r_7} = 0.08 \pm 0.24$$



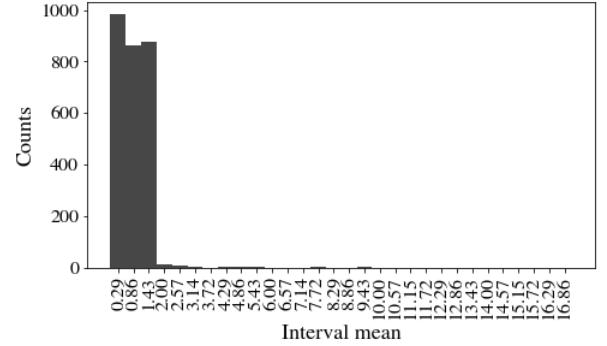
$$x_{105} : \frac{r_1+r_4}{r_6+r_8} = 0.08 \pm 0.23$$



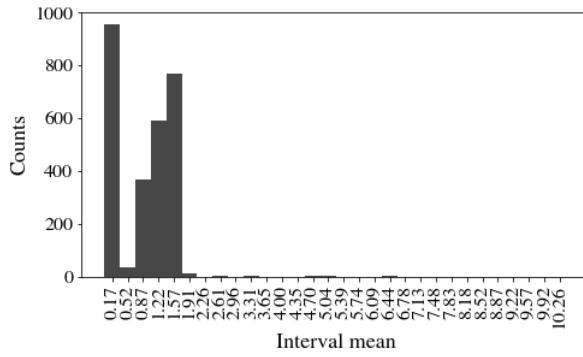
$$x_{106} : \frac{r_1+r_4}{r_7+r_8} = 0.09 \pm 0.29$$



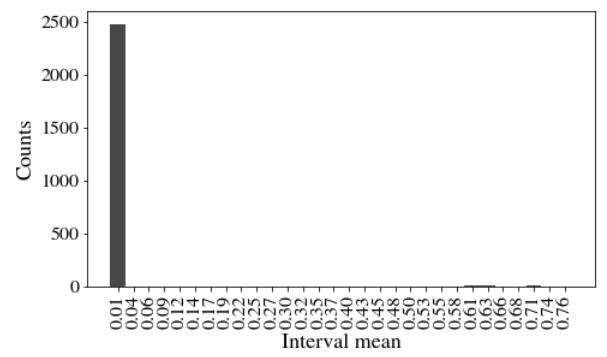
$$x_{107} : \frac{r_1+r_5}{r_1+r_6} = 0.75 \pm 1.21$$



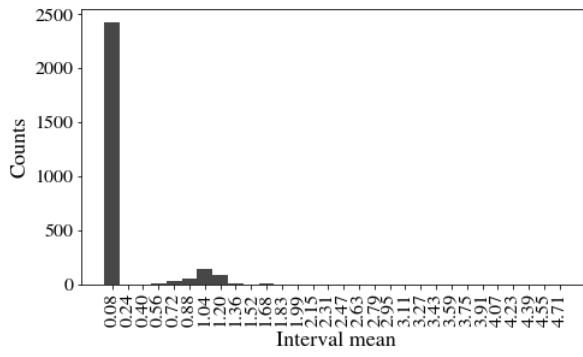
$$x_{108} : \frac{r_1+r_5}{r_1+r_7} = 1.12 \pm 8.38$$



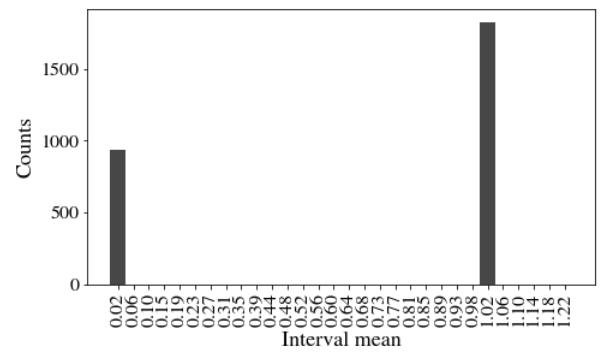
$$x_{109} : \frac{r_1+r_5}{r_1+r_8} = 1.31 \pm 8.17$$



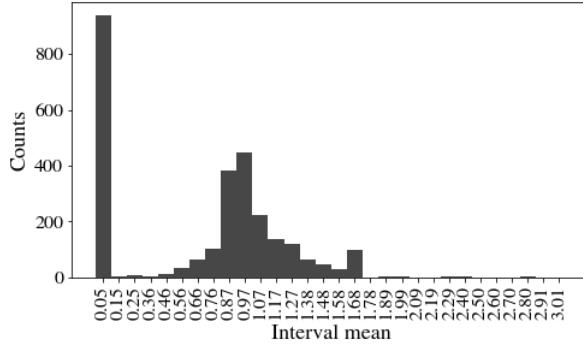
$$x_{110} : \frac{r_1+r_5}{r_2+r_3} = 0.11 \pm 0.33$$



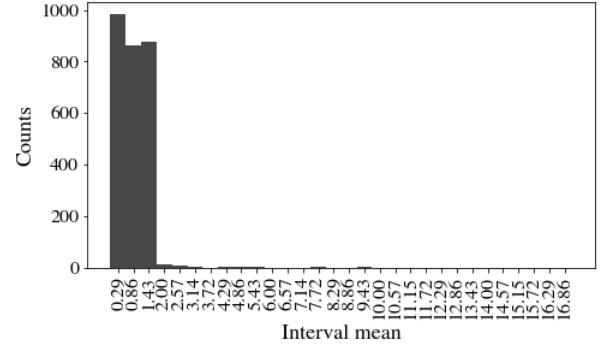
$$x_{111} : \frac{r_1+r_5}{r_2+r_4} = 0.23 \pm 5.36$$



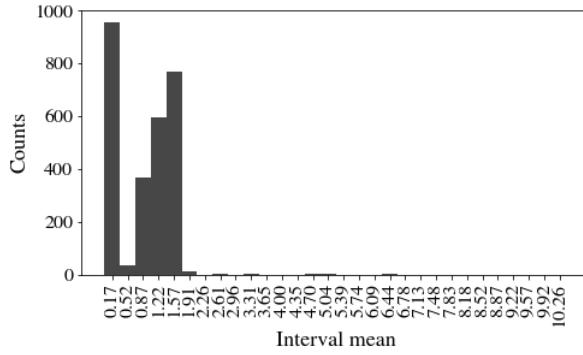
$$x_{112}^* : \frac{r_1+r_5}{r_2+r_5} = 0.66 \pm 0.47$$



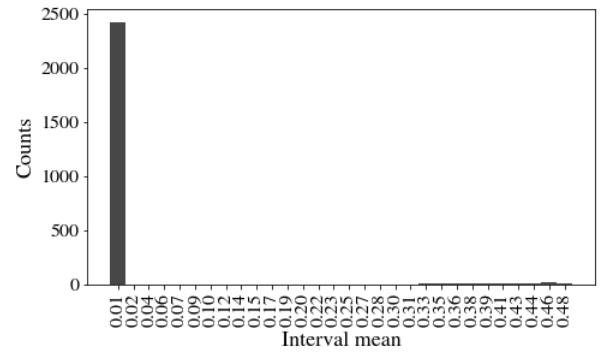
$$x_{113} : \frac{r_1+r_5}{r_2+r_6} = 0.75 \pm 1.21$$



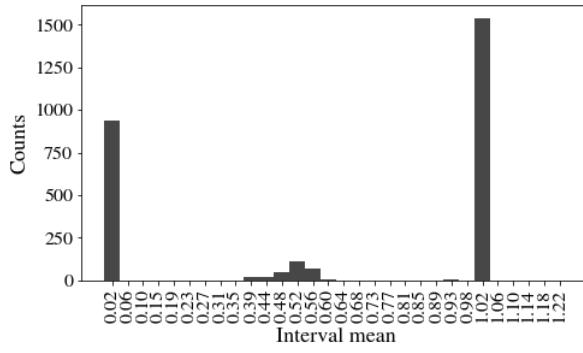
$$x_{114} : \frac{r_1+r_5}{r_2+r_7} = 1.12 \pm 8.38$$



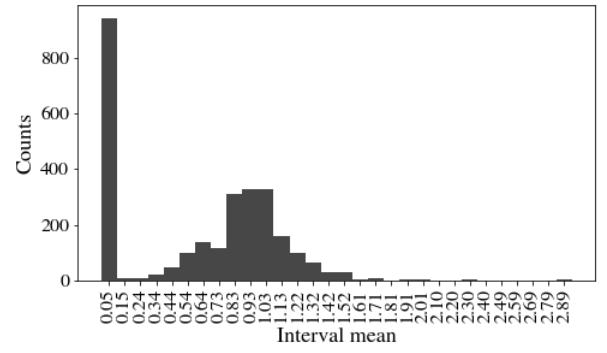
$$x_{115} : \frac{r_1+r_5}{r_2+r_8} = 1.31 \pm 8.17$$



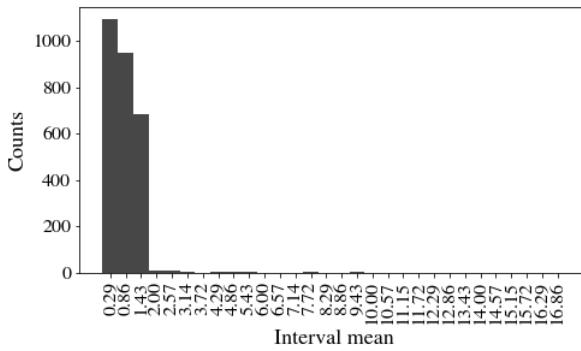
$$x_{116} : \frac{r_1+r_5}{r_3+r_4} = 0.07 \pm 0.21$$



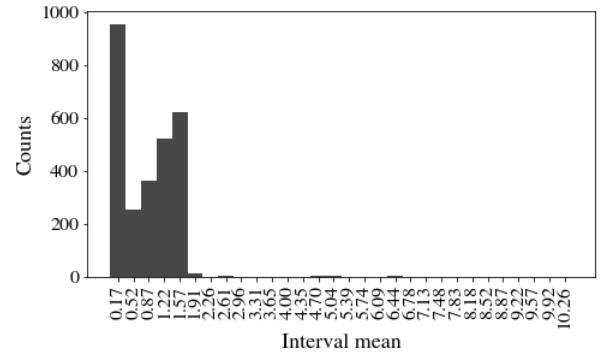
$$x_{117}^* : \frac{r_1+r_5}{r_3+r_5} = 0.61 \pm 0.46$$



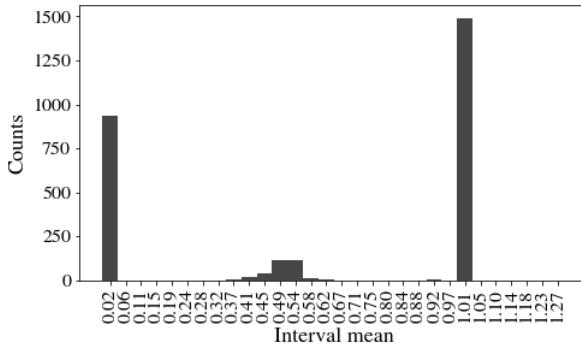
$$x_{118} : \frac{r_1+r_5}{r_3+r_6} = 0.68 \pm 1.19$$



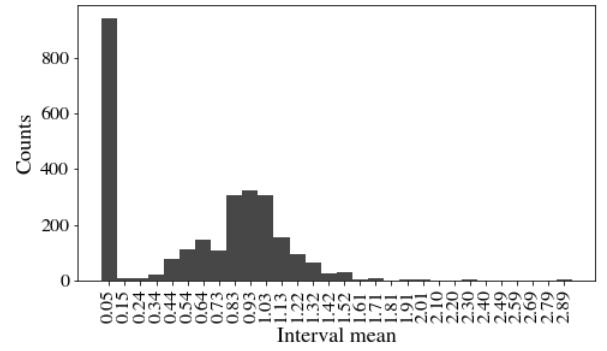
$$x_{119} : \frac{r_1+r_5}{r_3+r_7} = 1.03 \pm 8.34$$



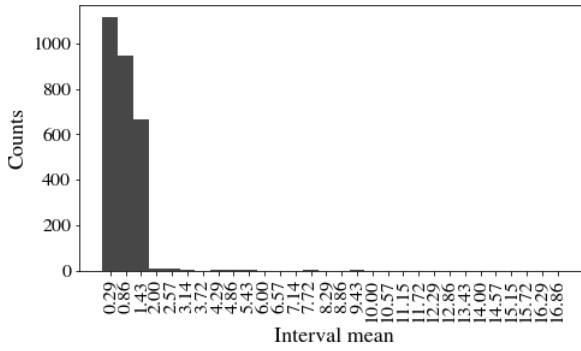
$$x_{120} : \frac{r_1+r_5}{r_3+r_8} = 1.22 \pm 8.16$$



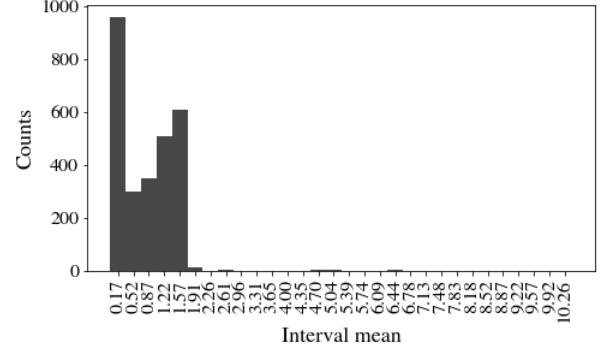
$$x_{121} : \frac{r_1+r_5}{r_4+r_5} = 0.60 \pm 0.46$$



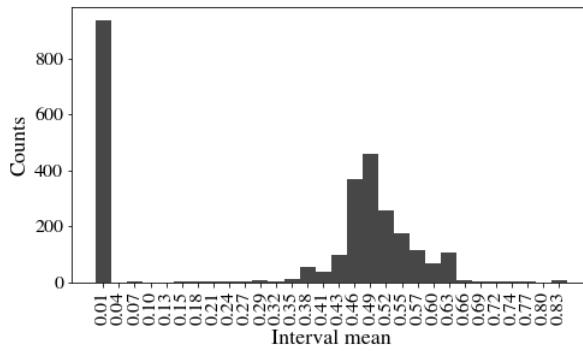
$$x_{122} : \frac{r_1+r_5}{r_4+r_6} = 0.67 \pm 1.18$$



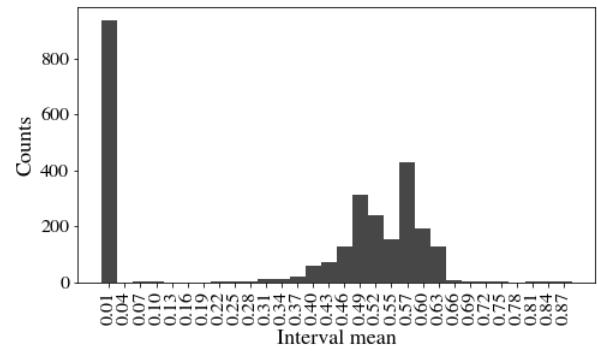
$$x_{123} : \frac{r_1+r_5}{r_4+r_7} = 1.02 \pm 8.34$$



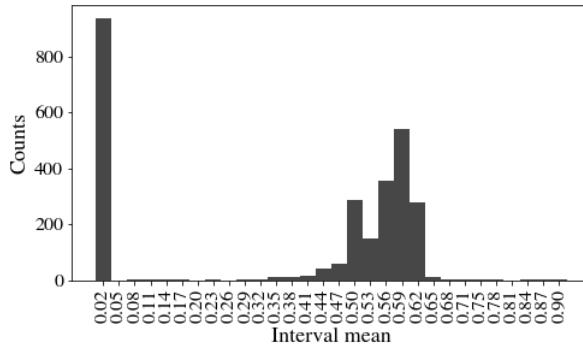
$$x_{124} : \frac{r_1+r_5}{r_4+r_8} = 1.21 \pm 8.17$$



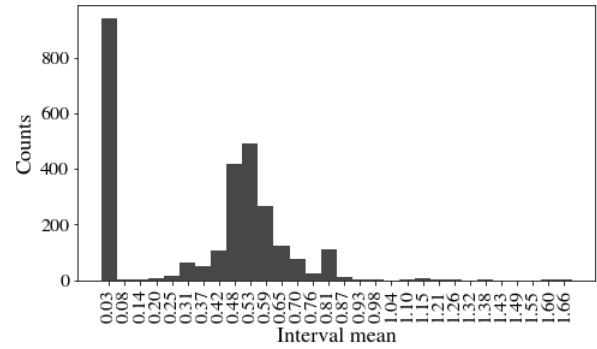
$$x_{125} : \frac{r_1+r_5}{r_5+r_6} = 0.34 \pm 0.25$$



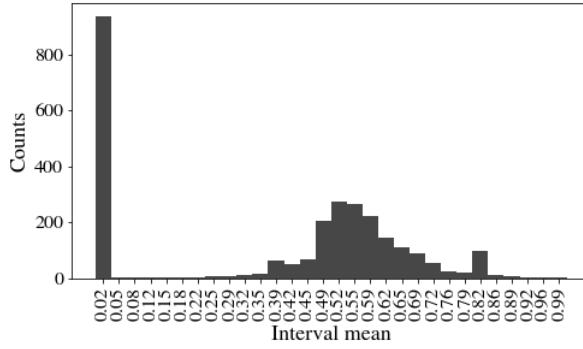
$$x_{126} : \frac{r_1+r_5}{r_5+r_7} = 0.36 \pm 0.27$$



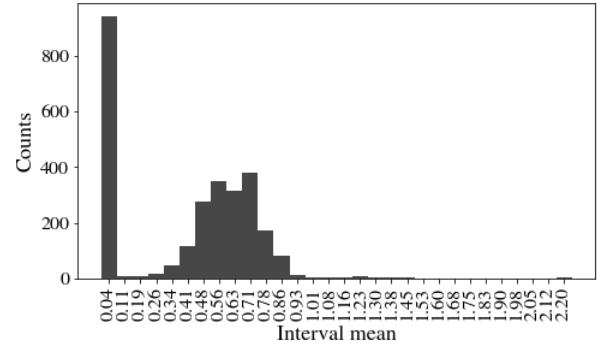
$$x_{127} : \frac{r_1+r_5}{r_5+r_8} = 0.37 \pm 0.28$$



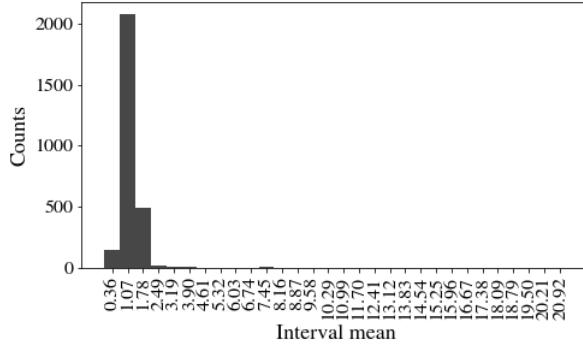
$$x_{128}^* : \frac{r_1+r_5}{r_6+r_7} = 0.38 \pm 0.68$$



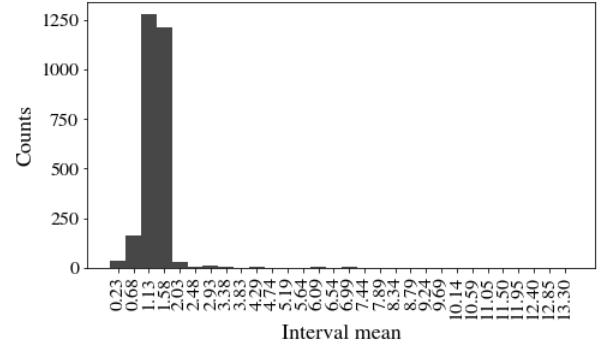
$$x_{129}^* : \frac{r_1+r_5}{r_6+r_8} = 0.39 \pm 0.34$$



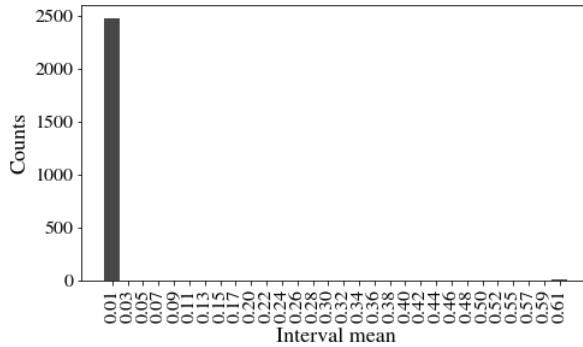
$$x_{130}^* : \frac{r_1+r_5}{r_7+r_8} = 0.46 \pm 1.08$$



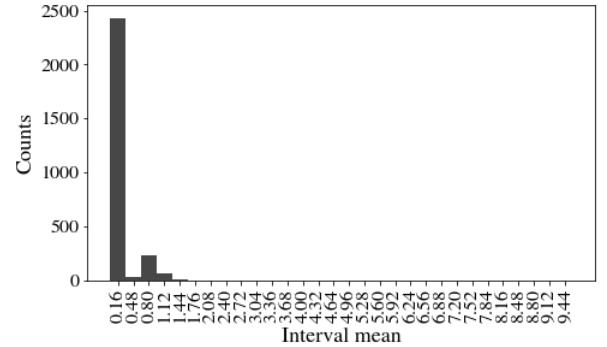
$$x_{131} : \frac{r_1+r_6}{r_1+r_7} = 1.51 \pm 9.98$$



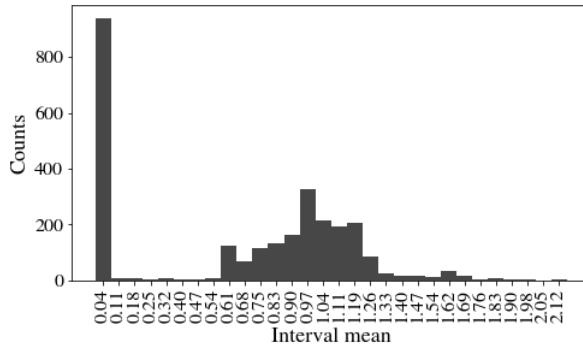
$$x_{132} : \frac{r_1+r_6}{r_1+r_8} = 1.65 \pm 6.36$$



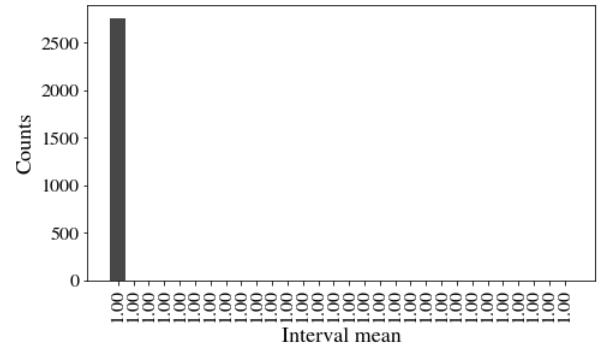
$$x_{133} : \frac{r_1+r_6}{r_2+r_3} = 0.09 \pm 0.27$$



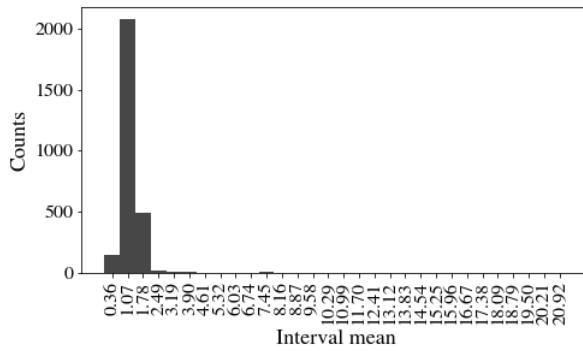
$$x_{134} : \frac{r_1+r_6}{r_2+r_4} = 0.21 \pm 5.36$$



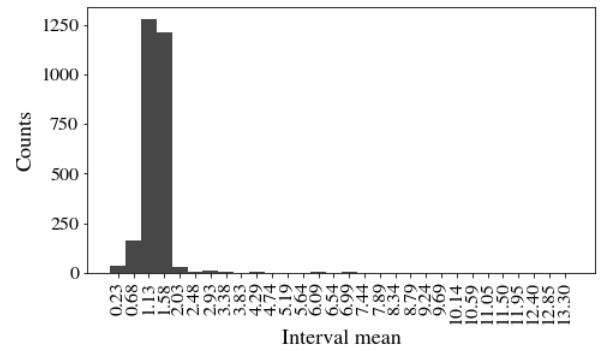
$$x_{135}^* : \frac{r_1+r_6}{r_2+r_5} = 0.70 \pm 0.74$$



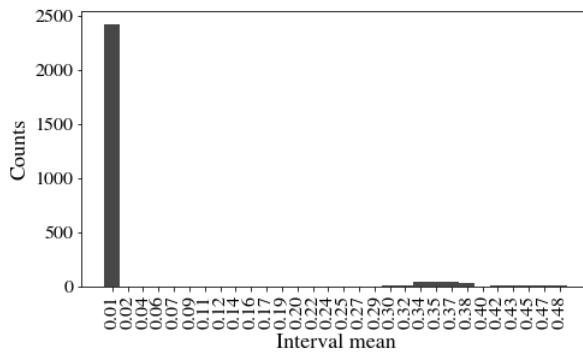
$$x_{136}^* : \frac{r_1+r_6}{r_2+r_6} = 1.00 \pm 0.01$$



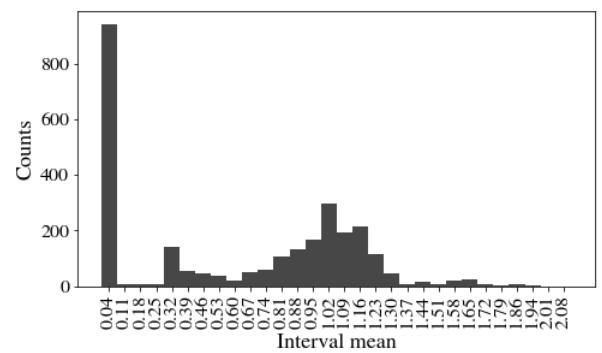
$$x_{137} : \frac{r_1+r_6}{r_2+r_7} = 1.51 \pm 9.98$$



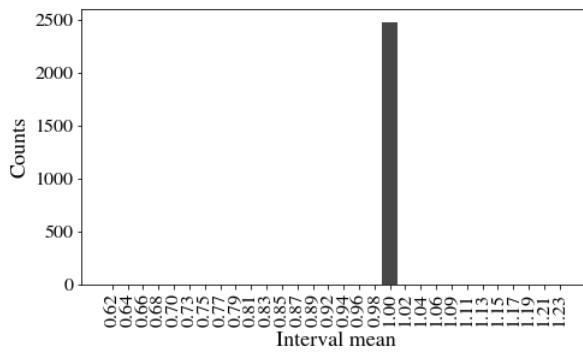
$$x_{138} : \frac{r_1+r_6}{r_2+r_7} = 1.65 \pm 6.36$$



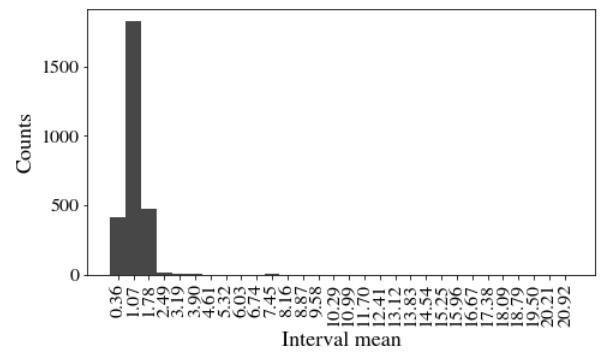
$$x_{139}^* : \frac{r_1+r_6}{r_3+r_4} = 0.06 \pm 0.21$$



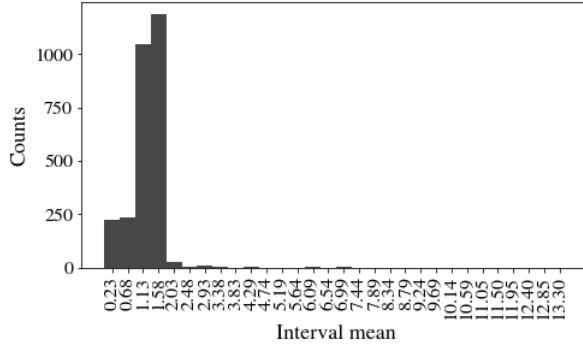
$$x_{140} : \frac{r_1+r_6}{r_3+r_5} = 0.65 \pm 0.74$$



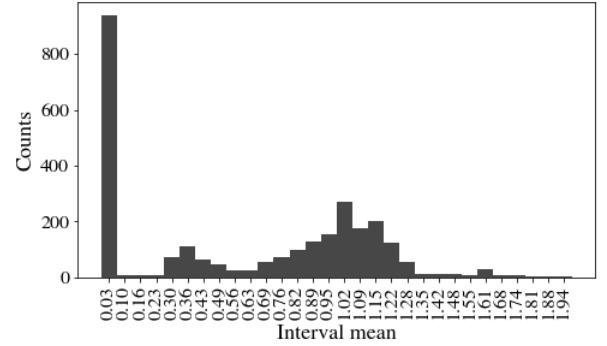
$$x_{141} : \frac{r_1+r_6}{r_3+r_6} = 0.94 \pm 0.17$$



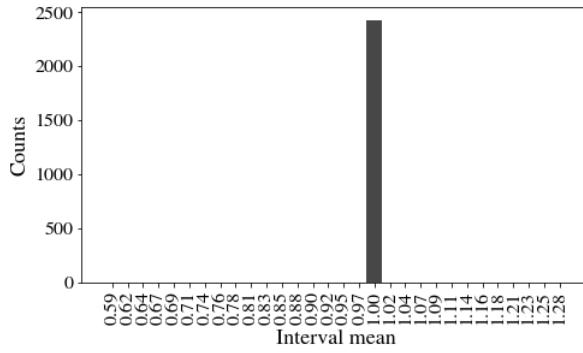
$$x_{142} : \frac{r_1+r_6}{r_3+r_7} = 1.44 \pm 9.98$$



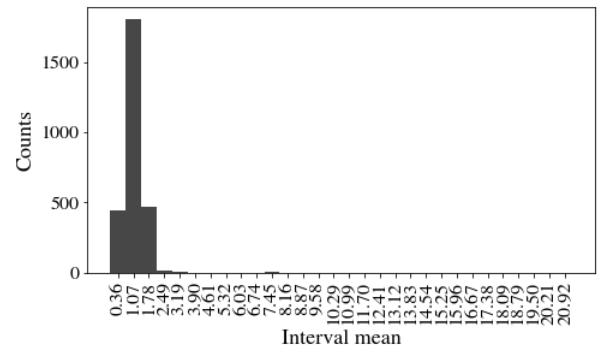
$$x_{143} : \frac{r_1+r_6}{r_3+r_8} = 1.59 \pm 6.36$$



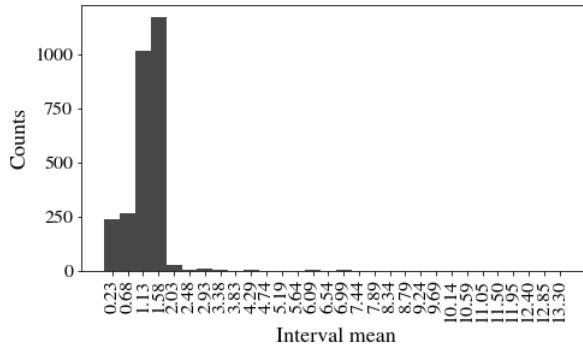
$$x_{144} : \frac{r_1+r_6}{r_4+r_5} = 0.64 \pm 0.72$$



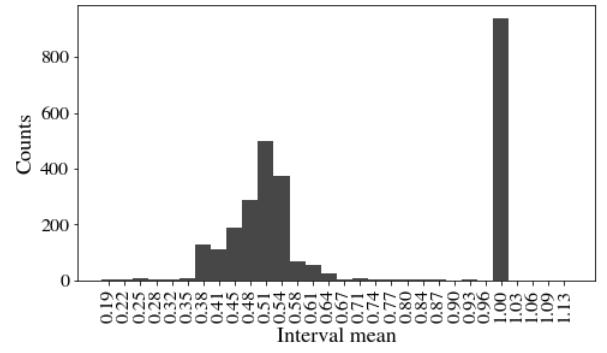
$$x_{145} : \frac{r_1+r_6}{r_4+r_6} = 0.93 \pm 0.18$$



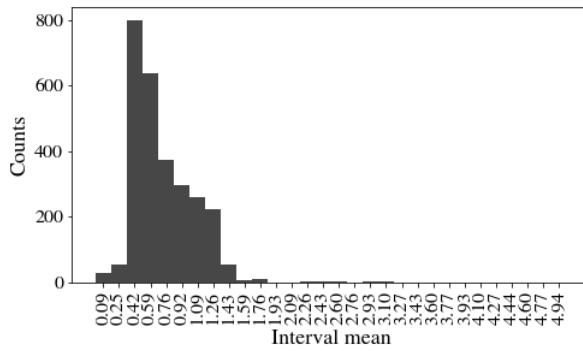
$$x_{146} : \frac{r_1+r_6}{r_4+r_7} = 1.43 \pm 9.98$$



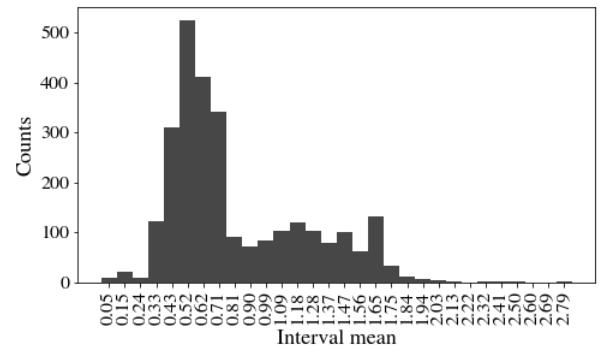
$$x_{147} : \frac{r_1+r_6}{r_4+r_8} = 1.58 \pm 6.36$$



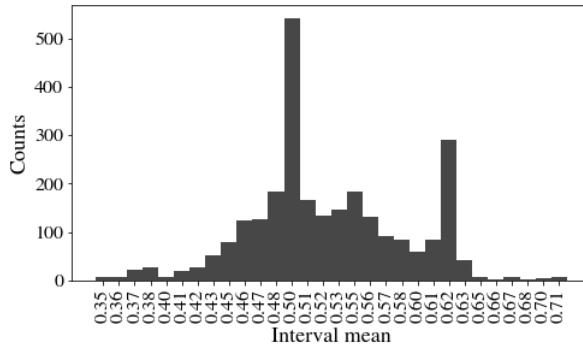
$$x_{148} : \frac{r_1+r_6}{r_5+r_6} = 0.67 \pm 0.25$$



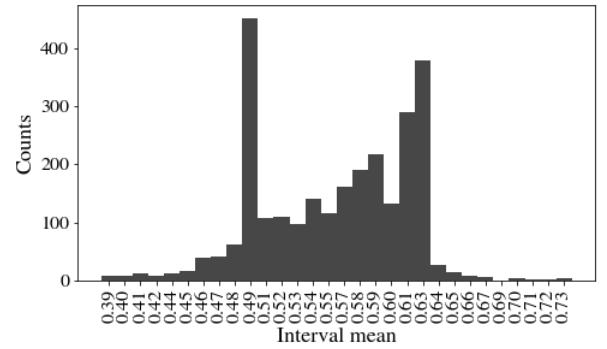
$$x_{149}^* : \frac{r_1+r_6}{r_5+r_7} = 0.80 \pm 2.24$$



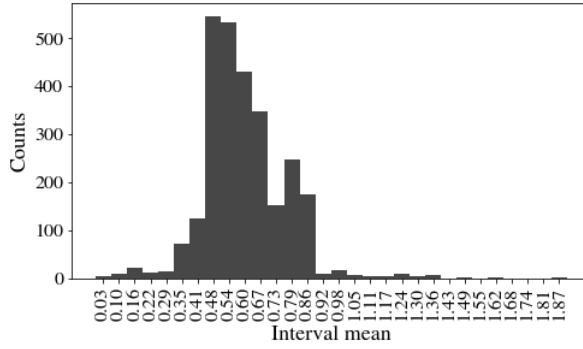
$$x_{150}^* : \frac{r_1+r_6}{r_5+r_8} = 0.86 \pm 1.04$$



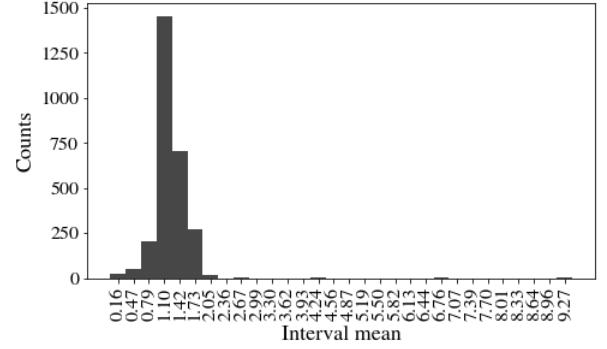
$$x_{151}^* : \frac{r_1+r_6}{r_6+r_7} = 0.53 \pm 0.09$$



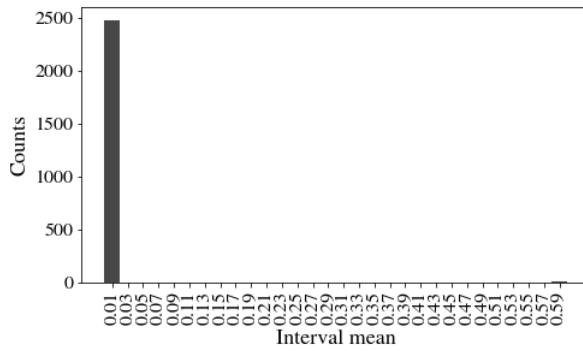
$$x_{152}^* : \frac{r_1+r_6}{r_6+r_8} = 0.56 \pm 0.09$$



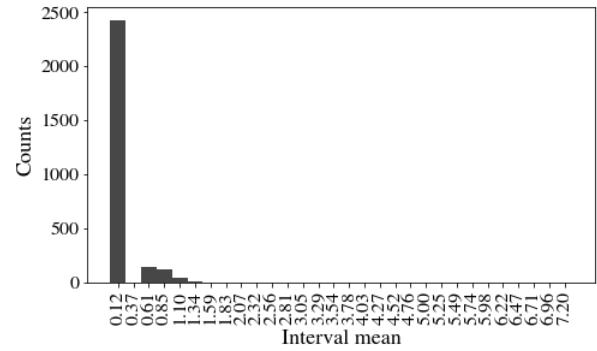
$$x_{153}^* : \frac{r_1+r_6}{r_7+r_8} = 0.64 \pm 0.64$$



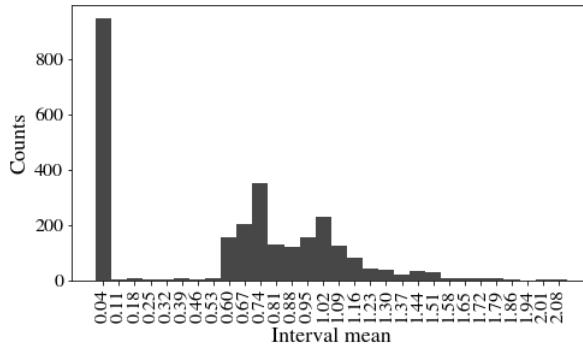
$$x_{154}^* : \frac{r_1+r_7}{r_1+r_8} = 1.42 \pm 5.31$$



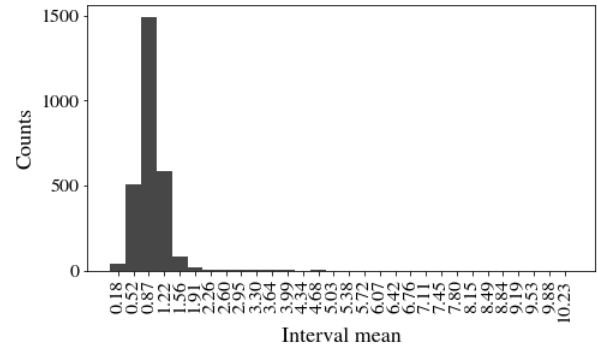
$$x_{155} : \frac{r_1+r_7}{r_2+r_3} = 0.08 \pm 0.26$$



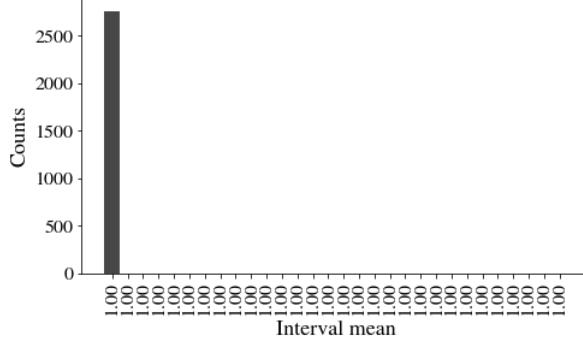
$$x_{156} : \frac{r_1+r_7}{r_2+r_4} = 0.21 \pm 5.36$$



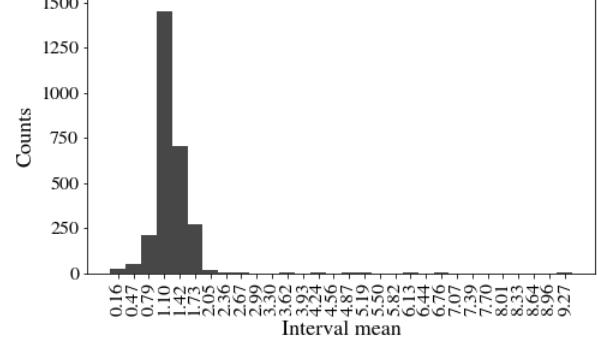
$$x_{157}^* : \frac{r_1+r_7}{r_2+r_5} = 0.63 \pm 0.75$$



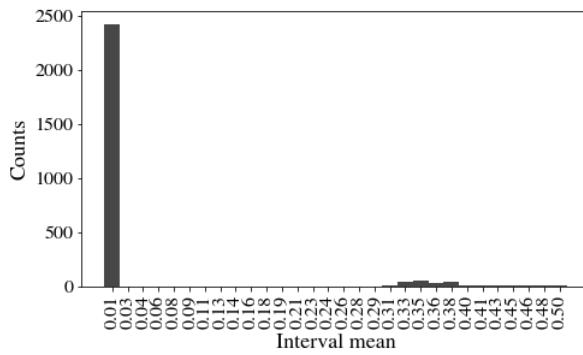
$$x_{158}^* : \frac{r_1+r_7}{r_2+r_6} = 1.08 \pm 5.19$$



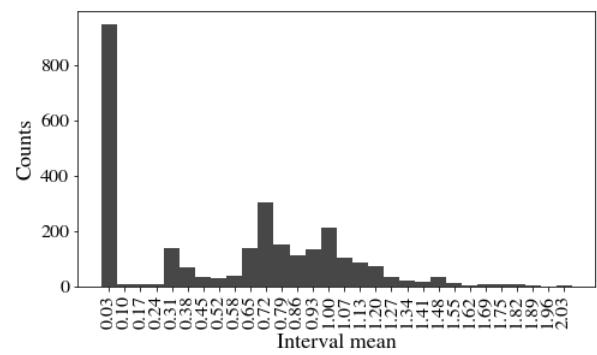
$$x_{159} : \frac{r_1+r_7}{r_2+r_7} = 1.00 \pm 0.01$$



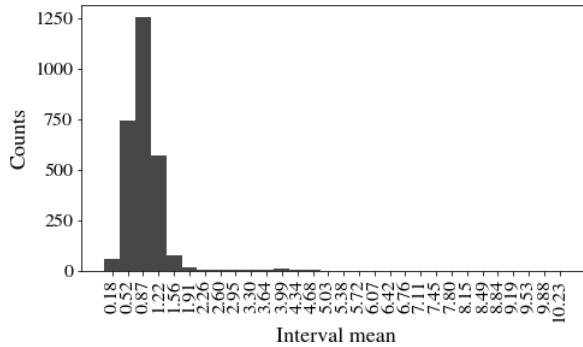
$$x_{160} : \frac{r_1+r_7}{r_2+r_8} = 1.42 \pm 5.31$$



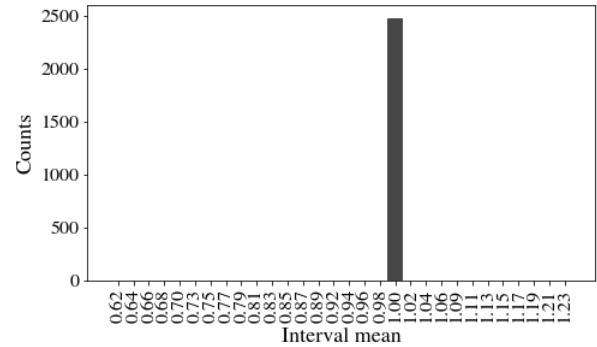
$$x_{161} : \frac{r_1+r_7}{r_3+r_4} = 0.06 \pm 0.22$$



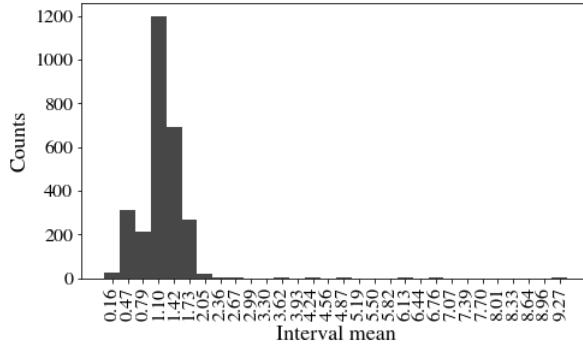
$$x_{162} : \frac{r_1+r_7}{r_3+r_5} = 0.59 \pm 0.74$$



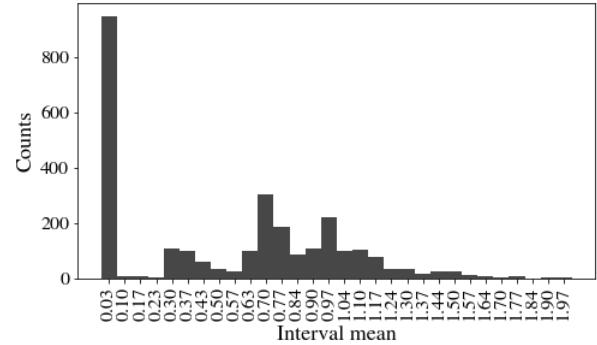
$$x_{163} : \frac{r_1+r_7}{r_3+r_6} = 1.02 \pm 5.19$$



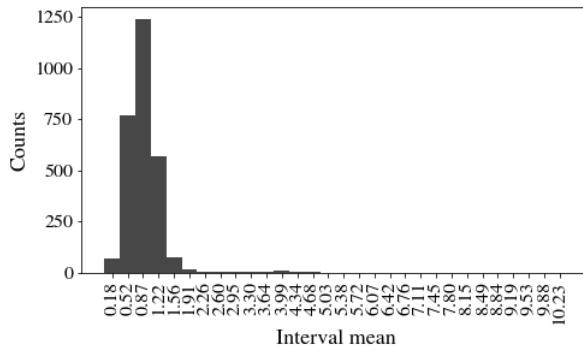
$$x_{164} : \frac{r_1+r_7}{r_3+r_7} = 0.94 \pm 0.17$$



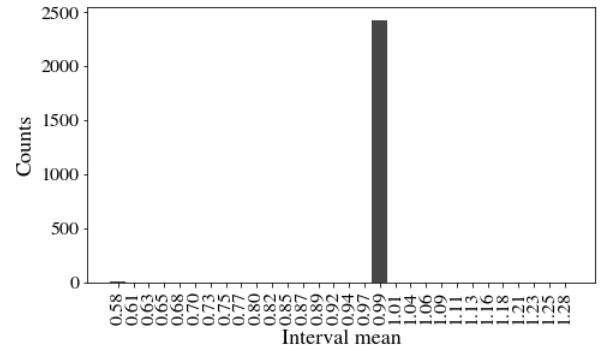
$$x_{165} : \frac{r_1+r_7}{r_3+r_8} = 1.36 \pm 5.31$$



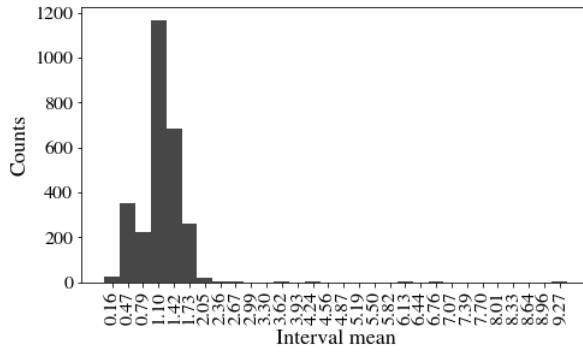
$$x_{166} : \frac{r_1+r_7}{r_4+r_5} = 0.58 \pm 0.72$$



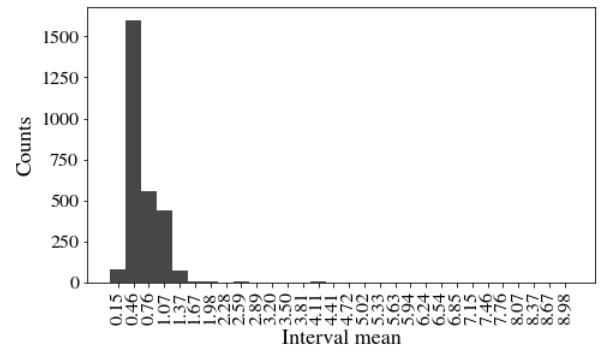
$$x_{167} : \frac{r_1+r_7}{r_4+r_6} = 1.01 \pm 5.19$$



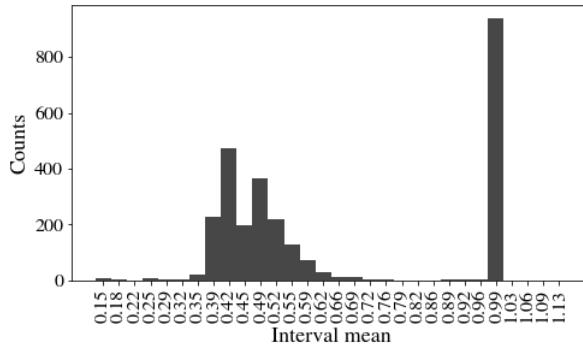
$$x_{168} : \frac{r_1+r_7}{r_4+r_7} = 0.93 \pm 0.18$$



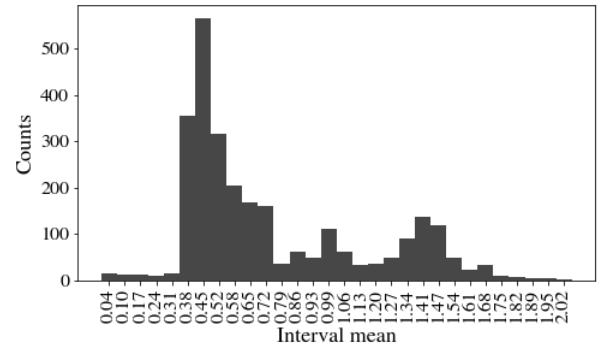
$$x_{169} : \frac{r_1+r_7}{r_4+r_8} = 1.35 \pm 5.31$$



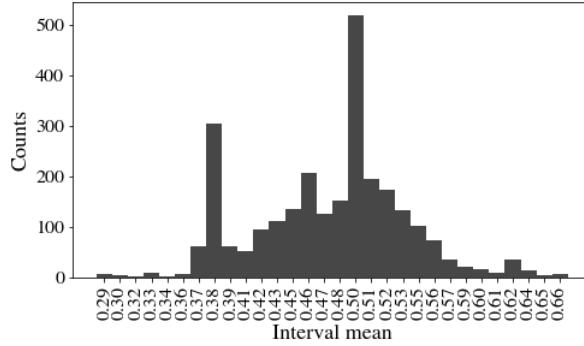
$$x_{170} : \frac{r_1+r_7}{r_5+r_6} = 0.73 \pm 5.16$$



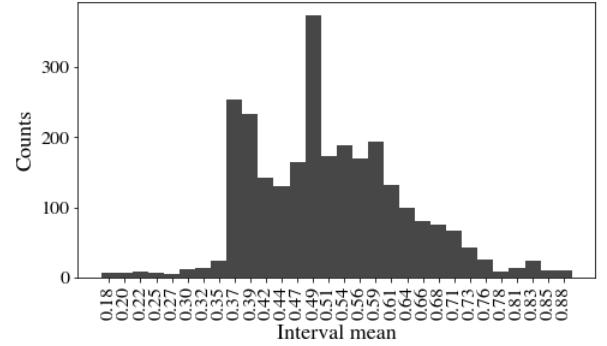
$$x_{171} : \frac{r_1+r_7}{r_5+r_7} = 0.65 \pm 0.26$$



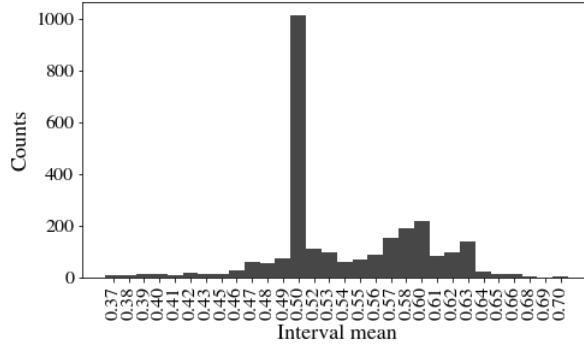
$$x_{172}^* : \frac{r_1+r_7}{r_5+r_8} = 0.78 \pm 0.69$$



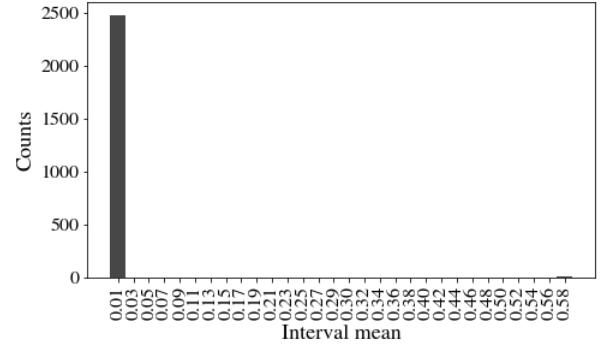
$$x_{173}^* : \frac{r_1+r_7}{r_6+r_7} = 0.48 \pm 0.10$$



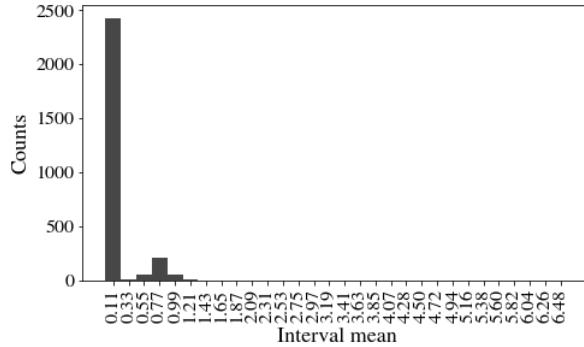
$$x_{174}^* : \frac{r_1+r_7}{r_6+r_8} = 0.52 \pm 0.18$$



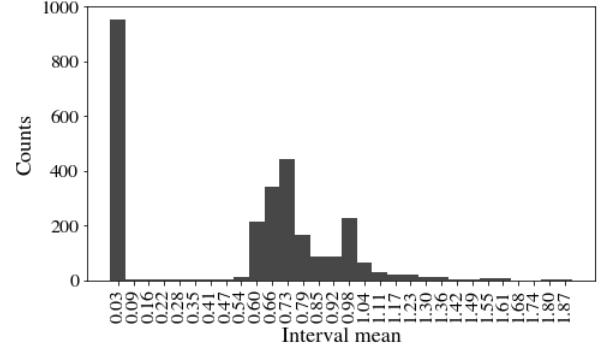
$$x_{175}^* : \frac{r_1+r_7}{r_7+r_8} = 0.54 \pm 0.09$$



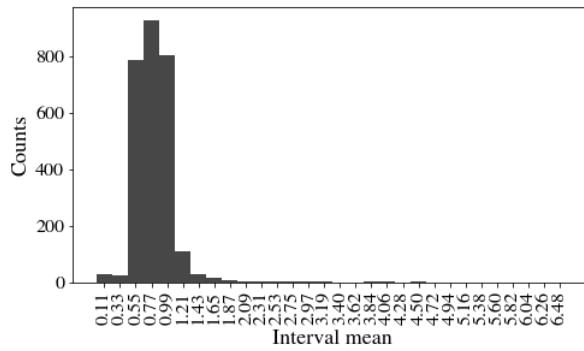
$$x_{176}^* : \frac{r_1+r_8}{r_2+r_3} = 0.08 \pm 0.25$$



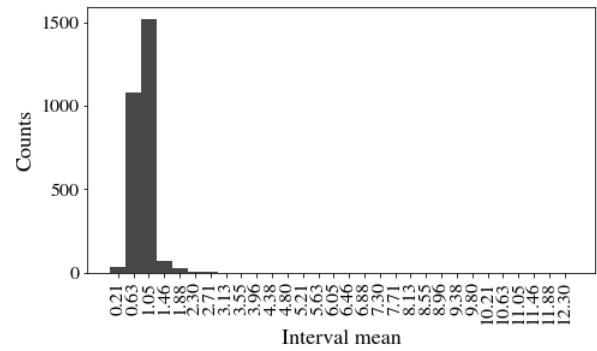
$$x_{177}^* : \frac{r_1+r_8}{r_2+r_4} = 0.21 \pm 5.54$$



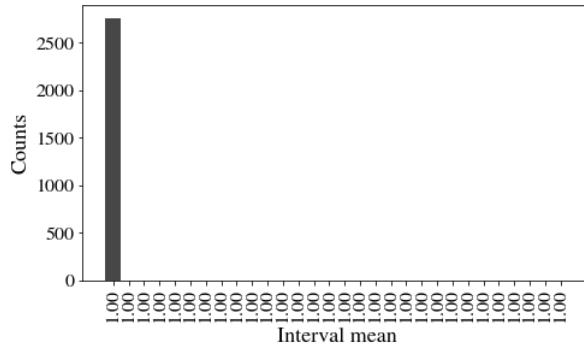
$$x_{178}^* : \frac{r_1+r_8}{r_2+r_5} = 0.56 \pm 0.67$$



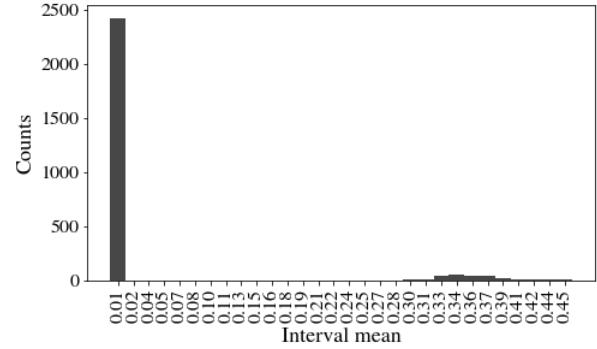
$$x_{179} : \frac{r_1+r_8}{r_2+r_6} = 0.95 \pm 4.66$$



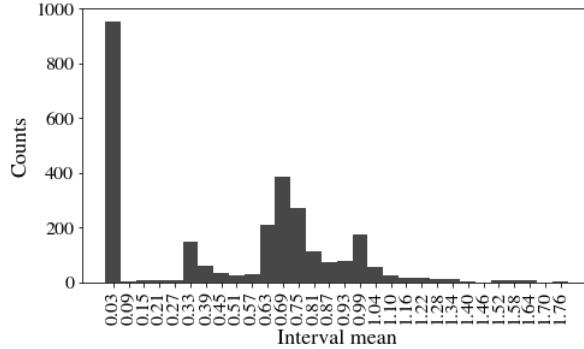
$$x_{180} : \frac{r_1+r_8}{r_2+r_7} = 1.13 \pm 6.68$$



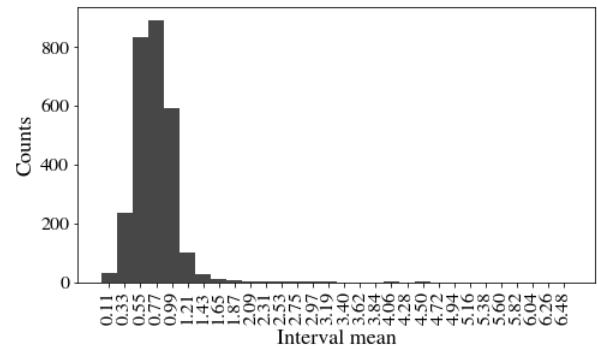
$$x_{181} : \frac{r_1+r_8}{r_2+r_8} = 1.00 \pm 0.01$$



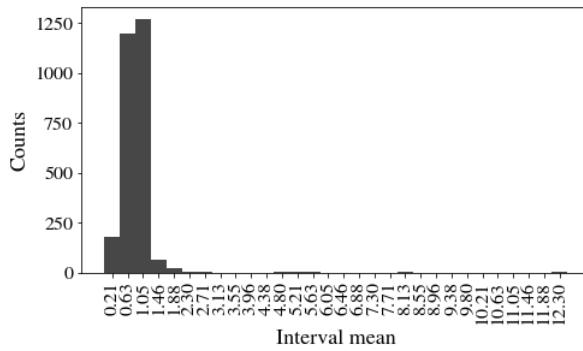
$$x_{182} : \frac{r_1+r_8}{r_3+r_4} = 0.06 \pm 0.20$$



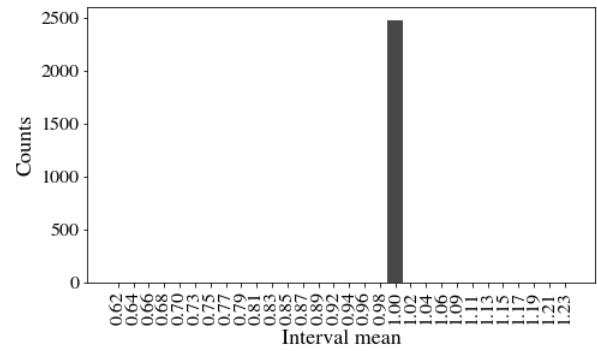
$$x_{183} : \frac{r_1+r_8}{r_3+r_5} = 0.52 \pm 0.65$$



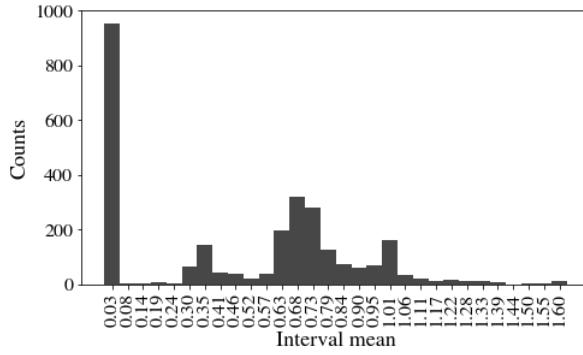
$$x_{184} : \frac{r_1+r_8}{r_3+r_6} = 0.89 \pm 4.66$$



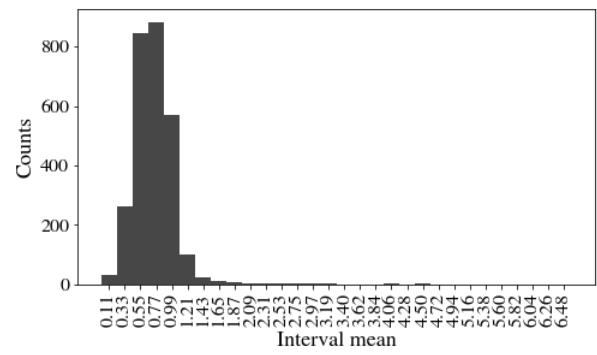
$$x_{185} : \frac{r_1+r_8}{r_3+r_7} = 1.07 \pm 6.68$$



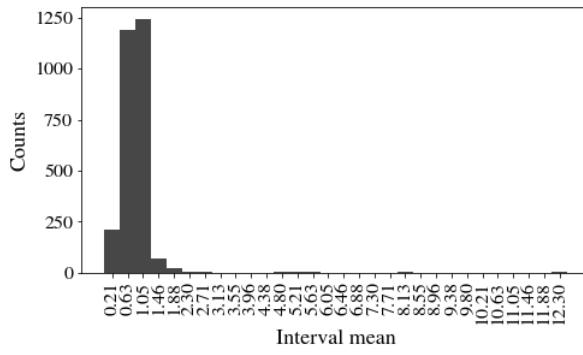
$$x_{186} : \frac{r_1+r_8}{r_3+r_8} = 0.94 \pm 0.17$$



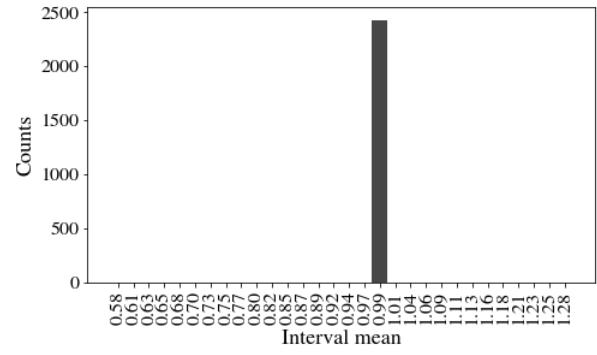
$$x_{187} : \frac{r_1+r_8}{r_4+r_5} = 0.51 \pm 0.62$$



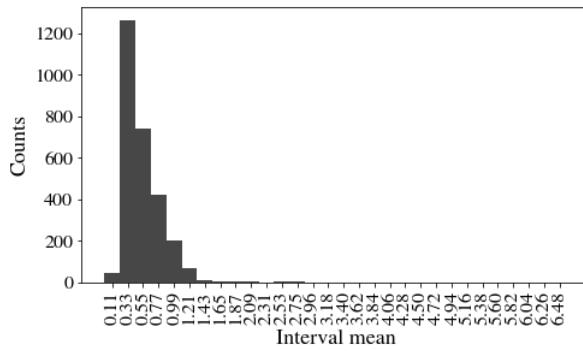
$$x_{188} : \frac{r_1+r_8}{r_4+r_6} = 0.88 \pm 4.66$$



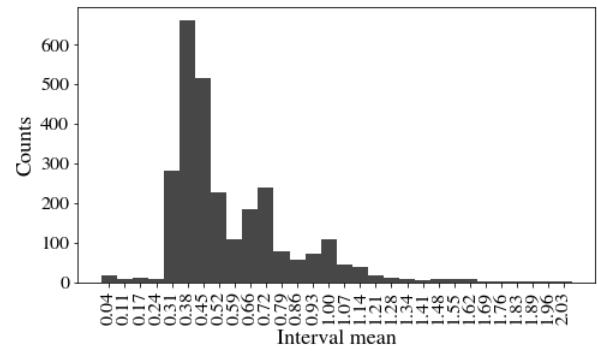
$$x_{189} : \frac{r_1+r_8}{r_4+r_7} = 1.06 \pm 6.68$$



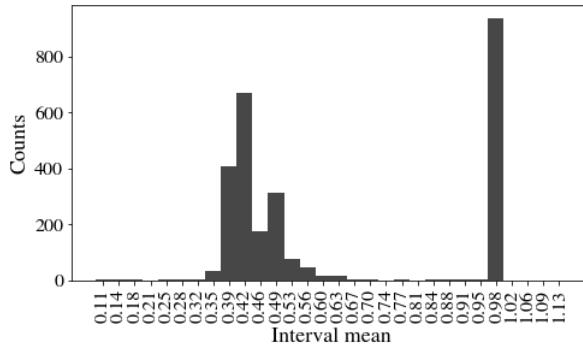
$$x_{190} : \frac{r_1+r_8}{r_4+r_8} = 0.93 \pm 0.18$$



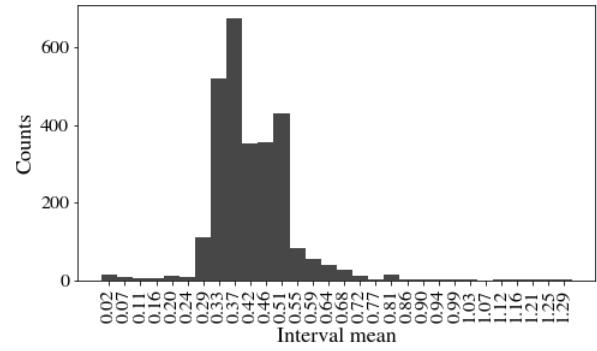
$$x_{191} : \frac{r_1+r_8}{r_5+r_6} = 0.63 \pm 4.60$$



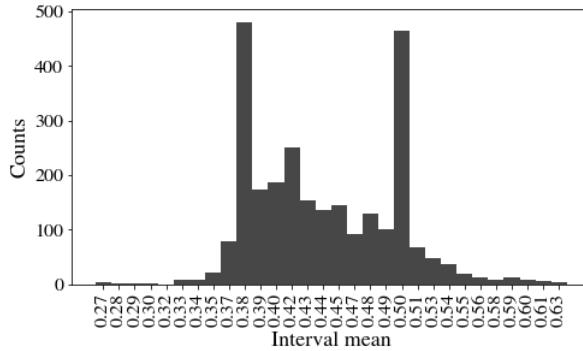
$$x_{192}^* : \frac{r_1+r_8}{r_5+r_7} = 0.60 \pm 0.74$$



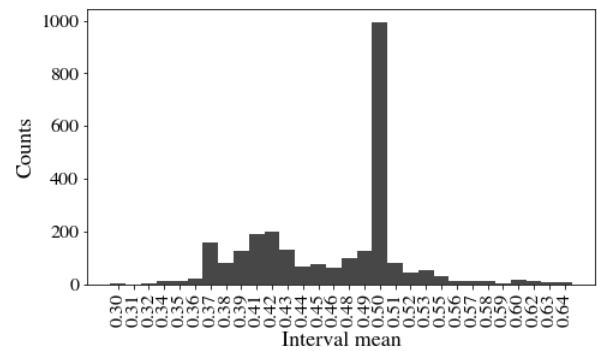
$$x_{193} : \frac{r_1+r_8}{r_5+r_8} = 0.63 \pm 0.28$$



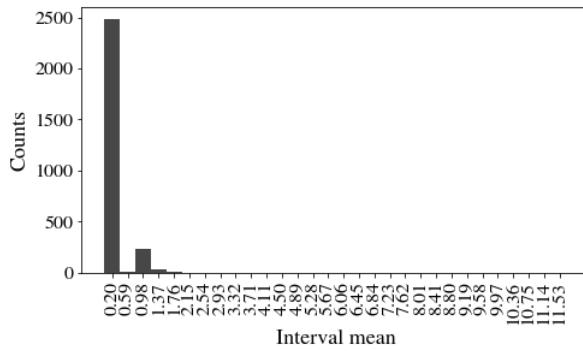
$$x_{194}^* : \frac{r_1+r_8}{r_6+r_7} = 0.43 \pm 0.46$$



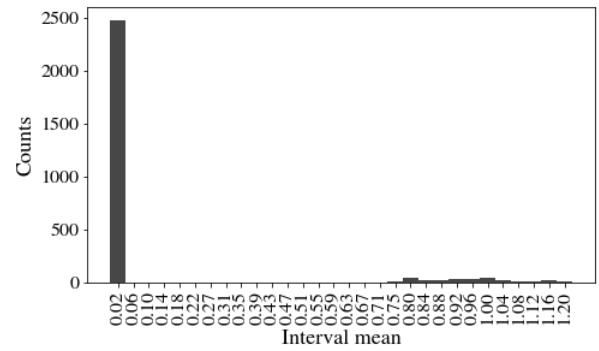
$$x_{195}^* : \frac{r_1+r_8}{r_6+r_8} = 0.44 \pm 0.09$$



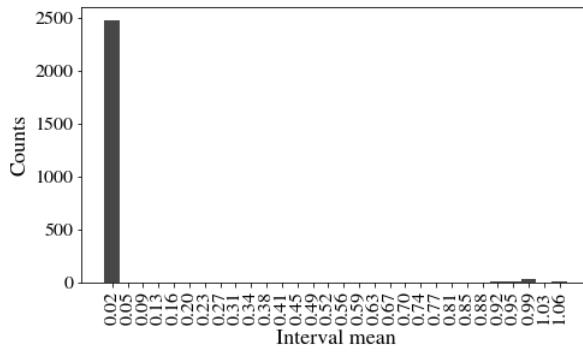
$$x_{196}^* : \frac{r_1+r_8}{r_7+r_8} = 0.47 \pm 0.09$$



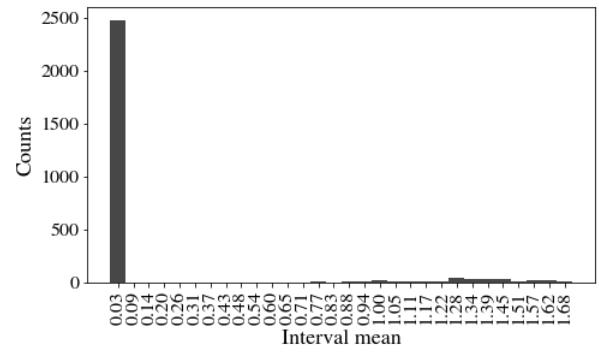
$$x_{197} : \frac{r_2+r_3}{r_2+r_4} = 0.24 \pm 6.33$$



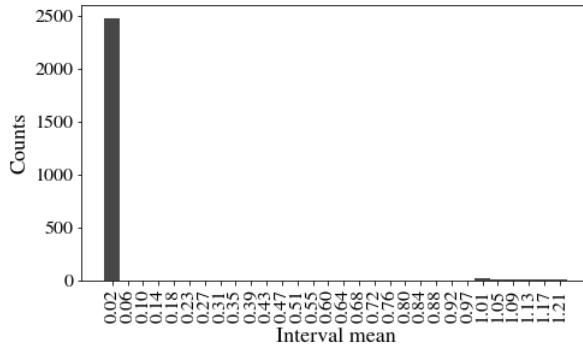
$$x_{198} : \frac{r_2+r_3}{r_2+r_5} = 0.12 \pm 0.55$$



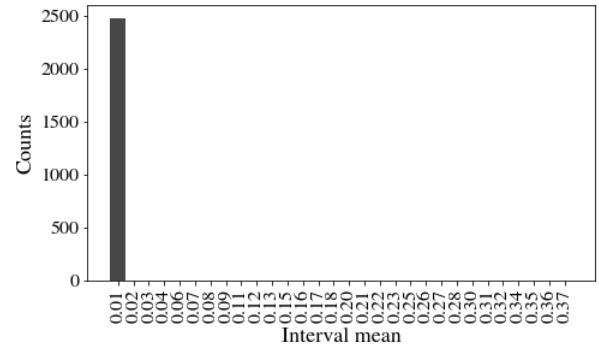
$$x_{199} : \frac{r_2+r_3}{r_2+r_6} = 0.14 \pm 0.47$$



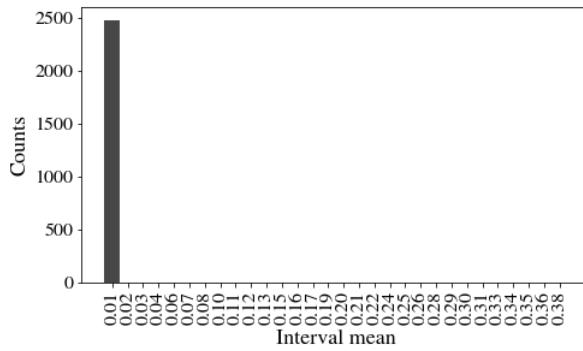
$$x_{200} : \frac{r_2+r_3}{r_2+r_7} = 0.15 \pm 0.78$$



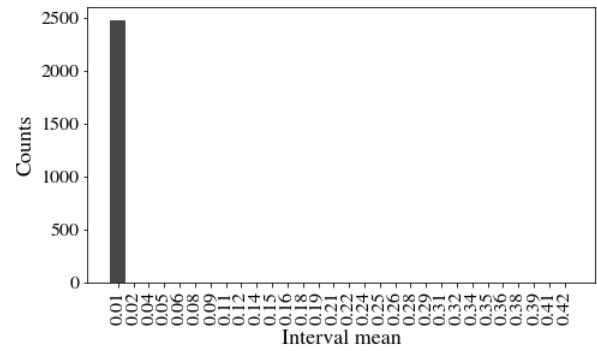
$$x_{201} : \frac{r_2+r_3}{r_2+r_8} = 0.15 \pm 0.54$$



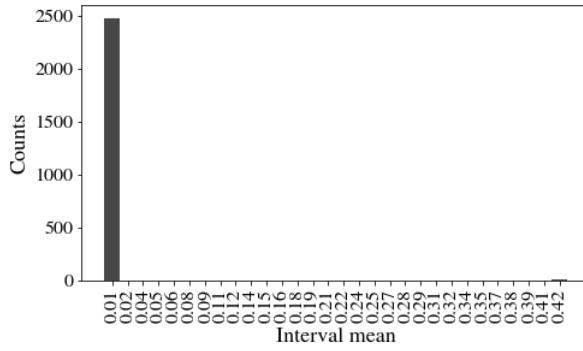
$$x_{202} : \frac{r_2+r_3}{r_3+r_4} = 0.06 \pm 0.17$$



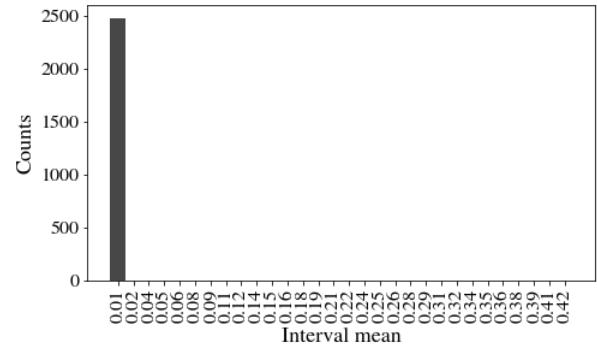
$$x_{203} : \frac{r_2+r_3}{r_3+r_5} = 0.05 \pm 0.17$$



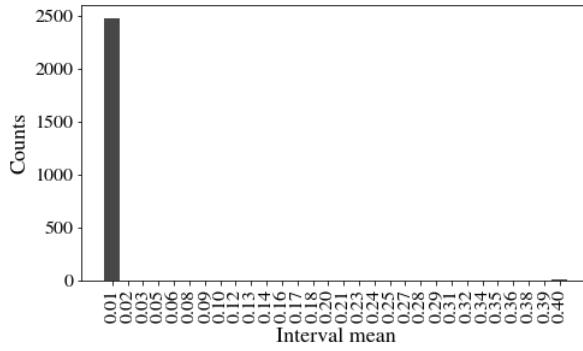
$$x_{204} : \frac{r_2+r_3}{r_3+r_6} = 0.06 \pm 0.18$$



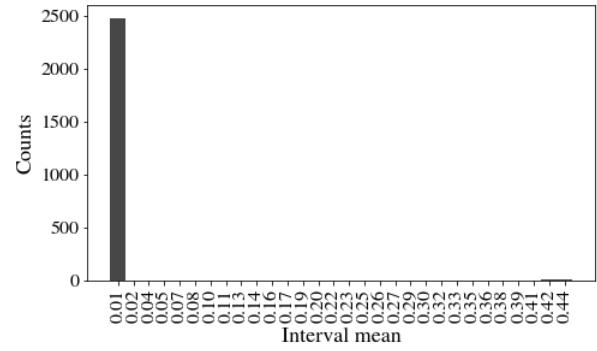
$$x_{205} : \frac{r_2+r_3}{r_3+r_7} = 0.06 \pm 0.19$$



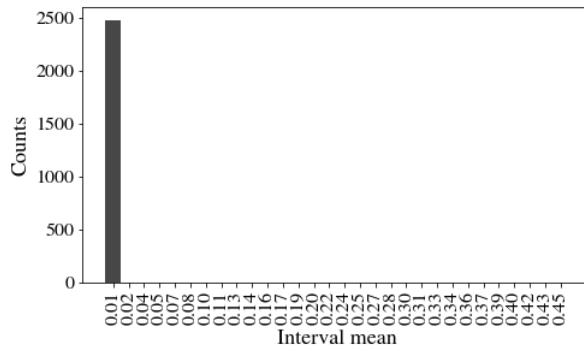
$$x_{206} : \frac{r_2+r_3}{r_3+r_8} = 0.06 \pm 0.19$$



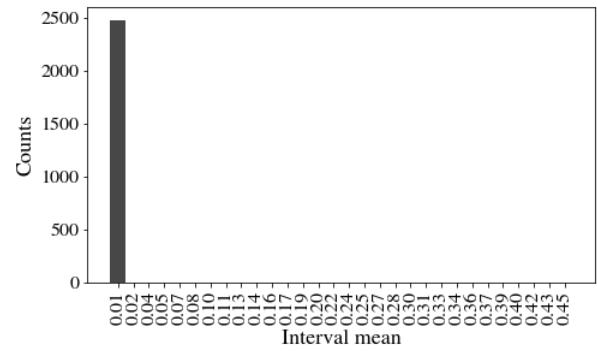
$$x_{207} : \frac{r_2+r_3}{r_4+r_5} = 0.06 \pm 0.18$$



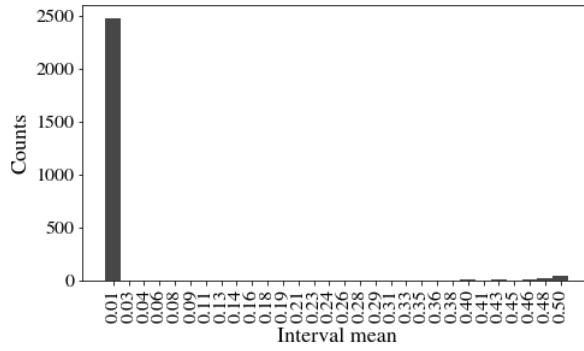
$$x_{208} : \frac{r_2+r_3}{r_4+r_6} = 0.06 \pm 0.19$$



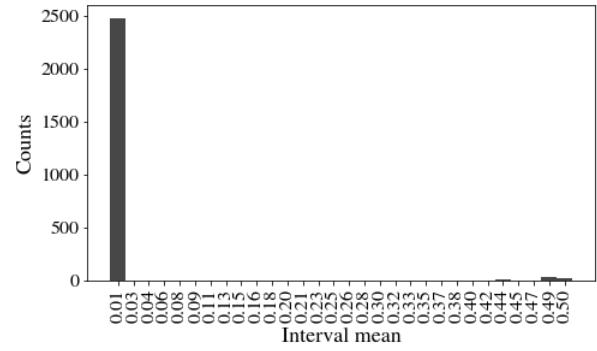
$$x_{209} : \frac{r_2+r_3}{r_4+r_7} = 0.06 \pm 0.20$$



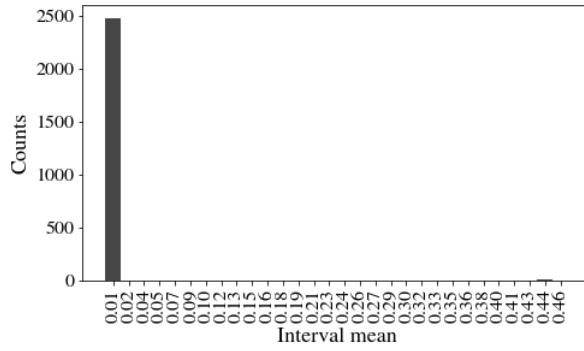
$$x_{210} : \frac{r_2+r_3}{r_4+r_8} = 0.06 \pm 0.20$$



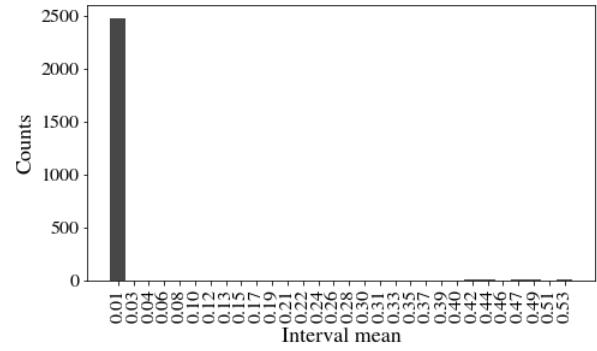
$$x_{211} : \frac{r_2+r_3}{r_5+r_6} = 0.06 \pm 0.22$$



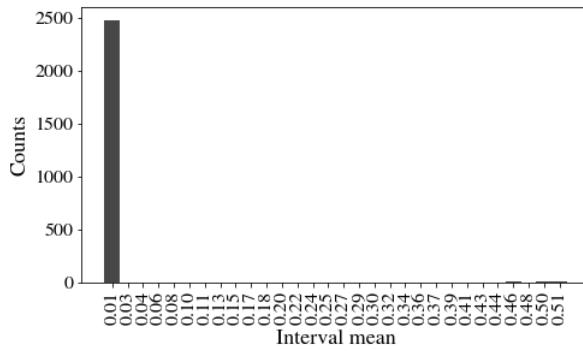
$$x_{212} : \frac{r_2+r_3}{r_5+r_7} = 0.06 \pm 0.22$$



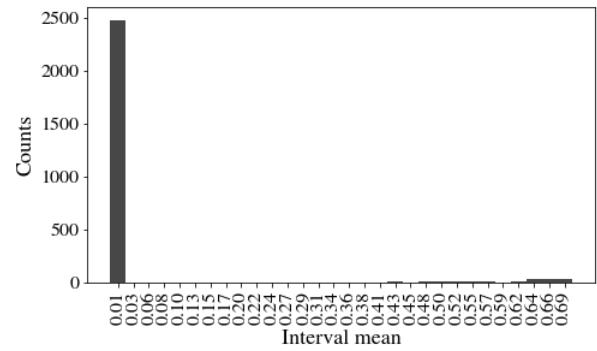
$$x_{213} : \frac{r_2+r_3}{r_5+r_8} = 0.06 \pm 0.20$$



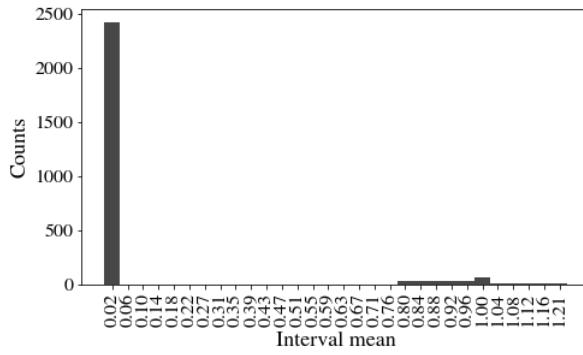
$$x_{214} : \frac{r_2+r_3}{r_6+r_7} = 0.07 \pm 0.23$$



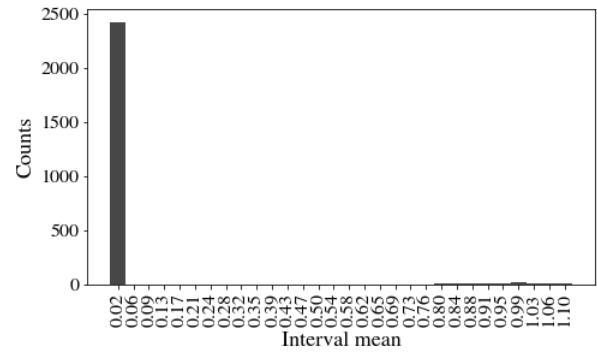
$$x_{215} : \frac{r_2+r_3}{r_6+r_8} = 0.07 \pm 0.23$$



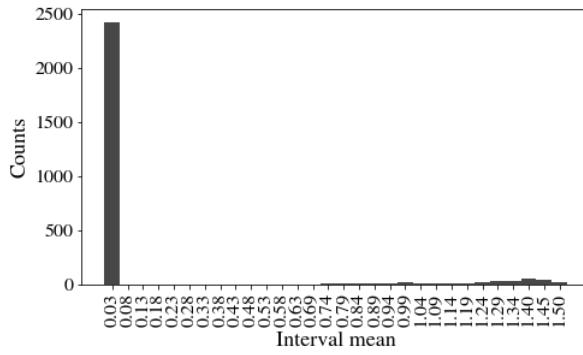
$$x_{216} : \frac{r_2+r_3}{r_7+r_8} = 0.08 \pm 0.31$$



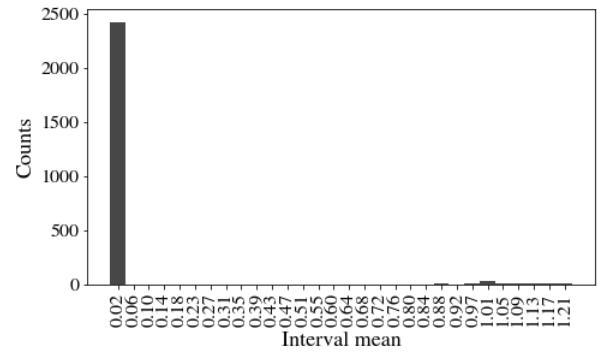
$$x_{217} : \frac{r_2+r_4}{r_2+r_5} = 0.14 \pm 0.55$$



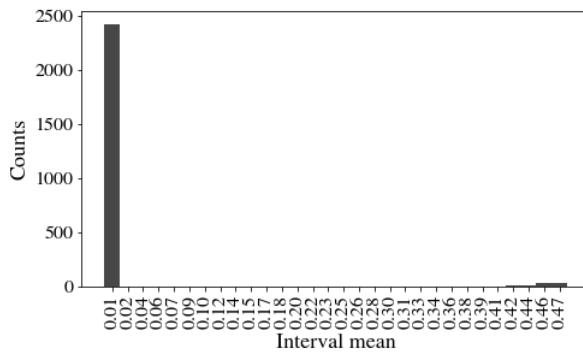
$$x_{218} : \frac{r_2+r_4}{r_2+r_6} = 0.16 \pm 0.48$$



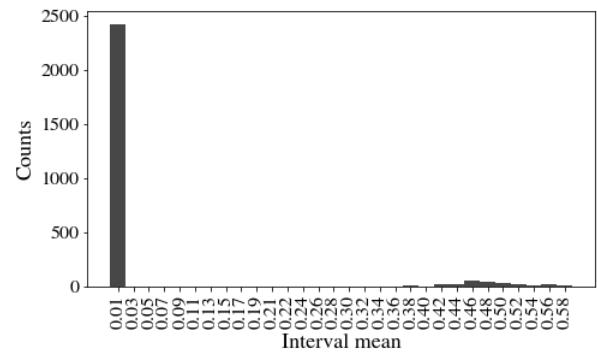
$$x_{219} : \frac{r_2+r_4}{r_2+r_7} = 0.17 \pm 0.68$$



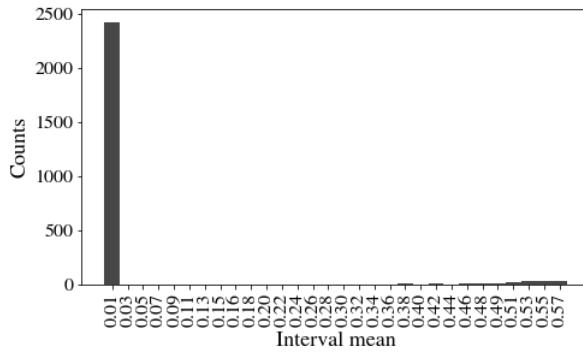
$$x_{220} : \frac{r_2+r_4}{r_2+r_8} = 0.17 \pm 0.53$$



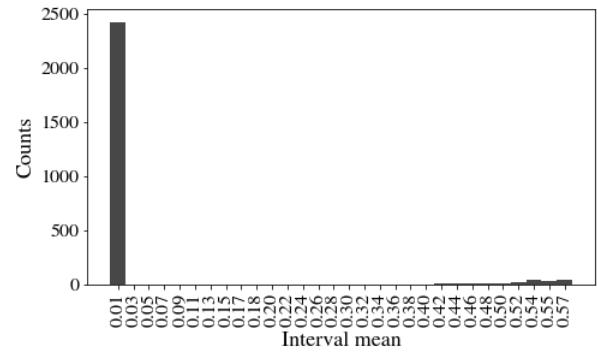
$$x_{221} : \frac{r_2+r_4}{r_3+r_4} = 0.07 \pm 0.20$$



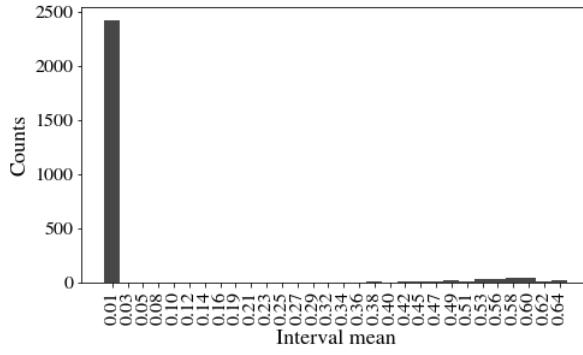
$$x_{222} : \frac{r_2+r_4}{r_3+r_5} = 0.08 \pm 0.26$$



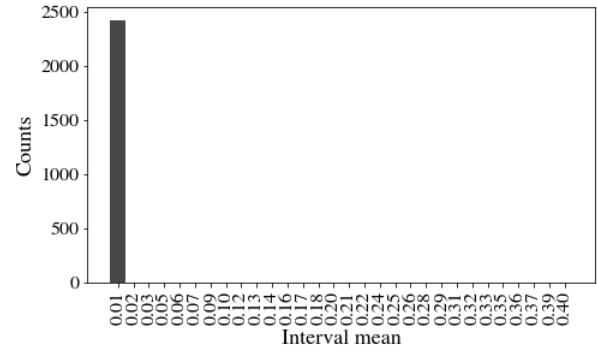
$$x_{223} : \frac{r_2+r_4}{r_3+r_6} = 0.08 \pm 0.25$$



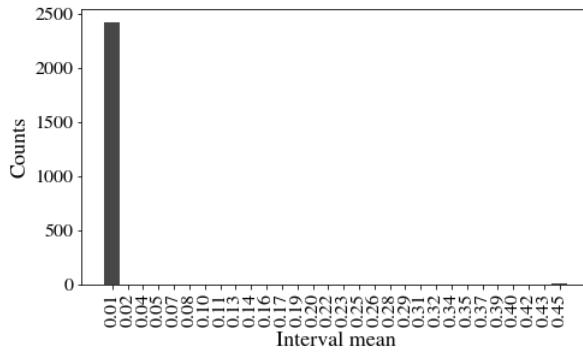
$$x_{224} : \frac{r_2+r_4}{r_3+r_7} = 0.08 \pm 0.25$$



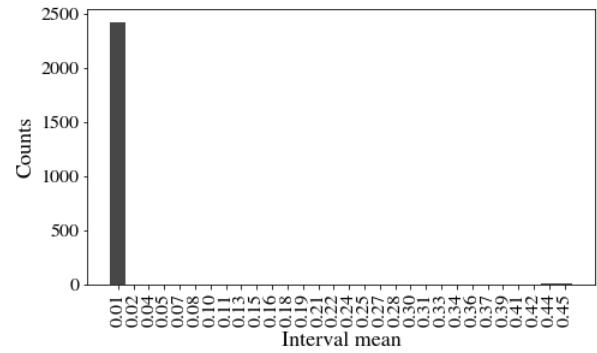
$$x_{225} : \frac{r_2+r_4}{r_3+r_8} = 0.09 \pm 0.28$$



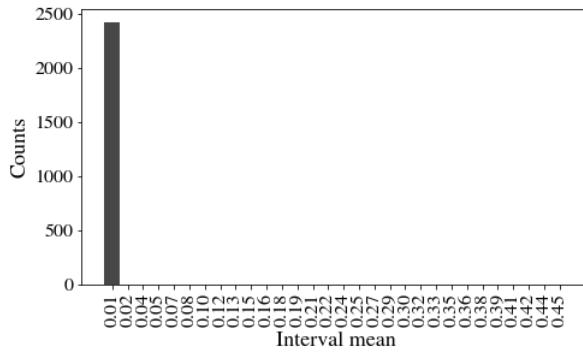
$$x_{226} : \frac{r_2+r_4}{r_4+r_5} = 0.06 \pm 0.18$$



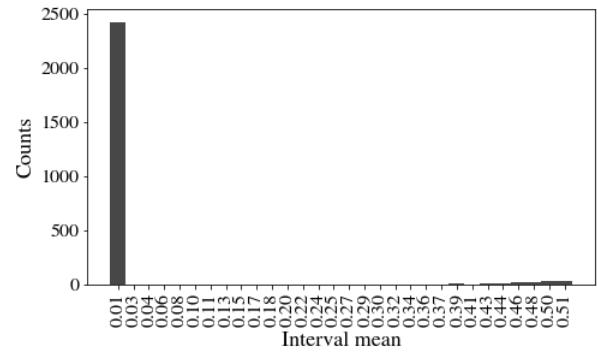
$$x_{227} : \frac{r_2+r_4}{r_4+r_6} = 0.07 \pm 0.19$$



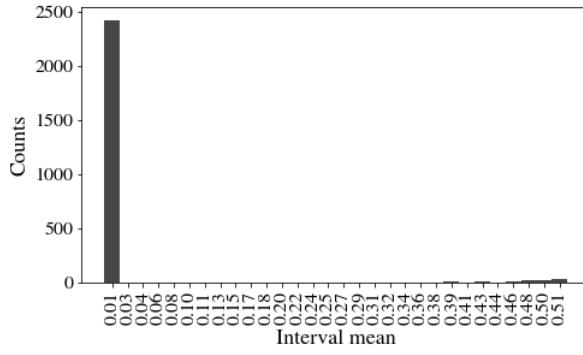
$$x_{228} : \frac{r_2+r_4}{r_4+r_7} = 0.07 \pm 0.19$$



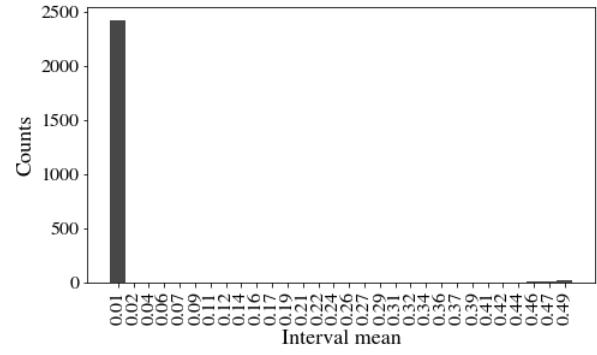
$$x_{229} : \frac{r_2+r_4}{r_4+r_8} = 0.07 \pm 0.20$$



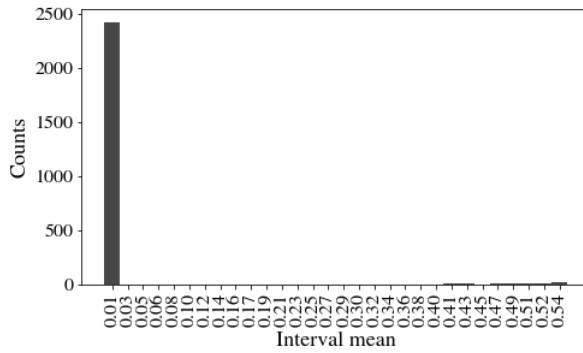
$$x_{230} : \frac{r_2+r_4}{r_5+r_6} = 0.07 \pm 0.23$$



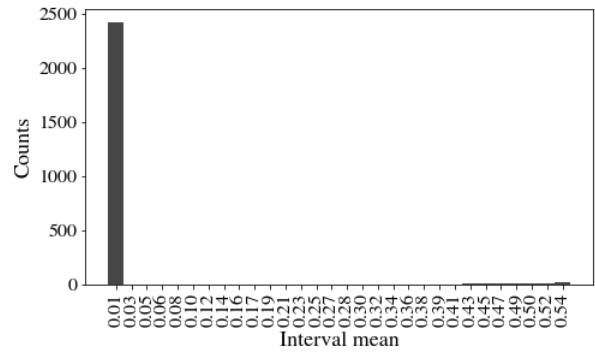
$$x_{231} : \frac{r_2+r_4}{r_5+r_7} = 0.07 \pm 0.23$$



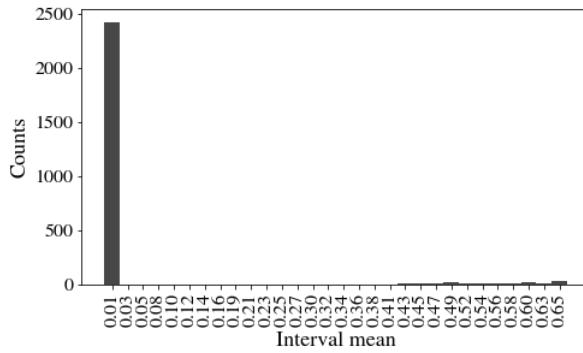
$$x_{232} : \frac{r_2+r_4}{r_5+r_8} = 0.07 \pm 0.21$$



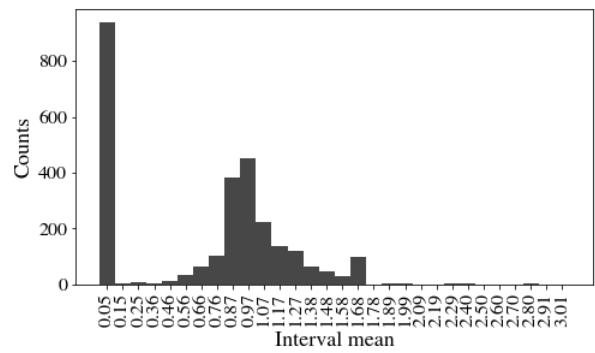
$$x_{233} : \frac{r_2+r_4}{r_6+r_7} = 0.08 \pm 0.24$$



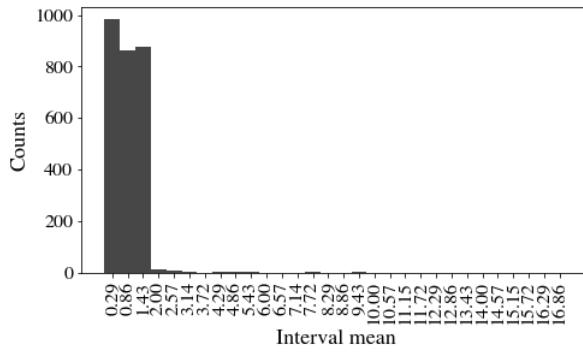
$$x_{234} : \frac{r_2+r_4}{r_6+r_8} = 0.08 \pm 0.23$$



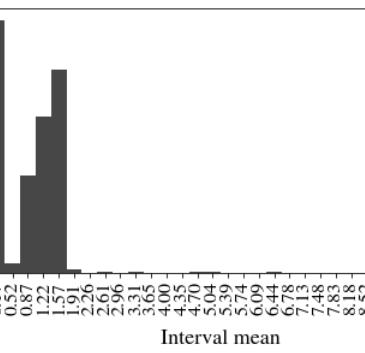
$$x_{235} : \frac{r_2+r_4}{r_7+r_8} = 0.09 \pm 0.29$$



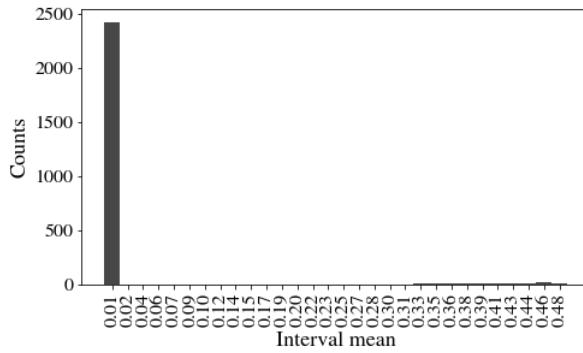
$$x_{236} : \frac{r_2+r_5}{r_2+r_6} = 0.75 \pm 1.21$$



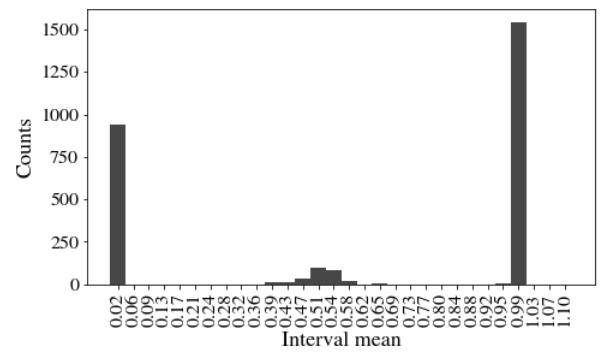
$$x_{237} : \frac{r_2+r_5}{r_2+r_7} = 1.12 \pm 8.38$$



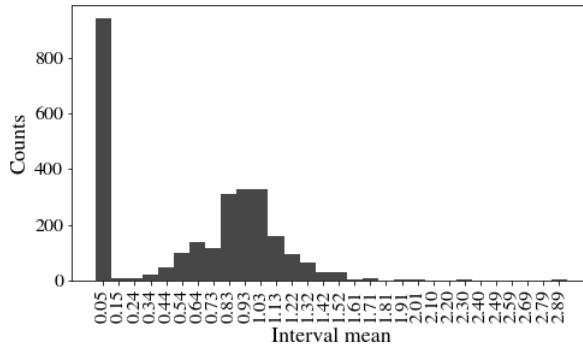
$$x_{238} : \frac{r_2+r_5}{r_2+r_8} = 1.31 \pm 8.17$$



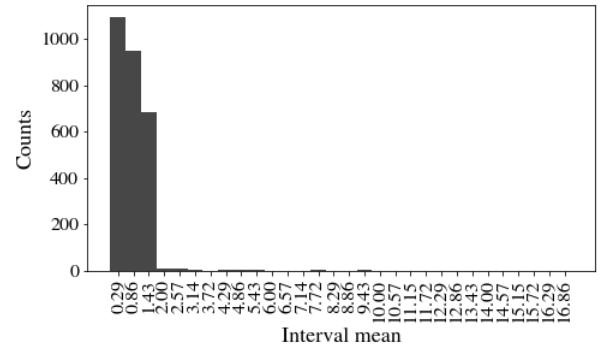
$$x_{239} : \frac{r_2+r_5}{r_3+r_4} = 0.07 \pm 0.21$$



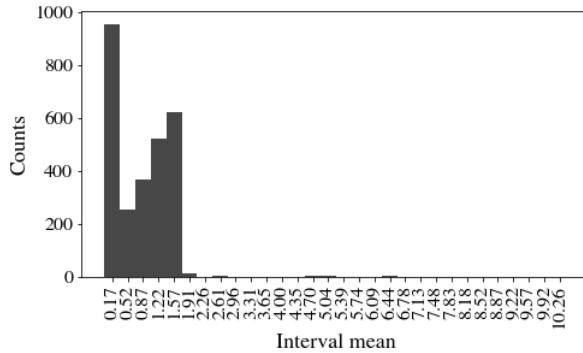
$$x_{240} : \frac{r_2+r_5}{r_3+r_4} = 0.61 \pm 0.46$$



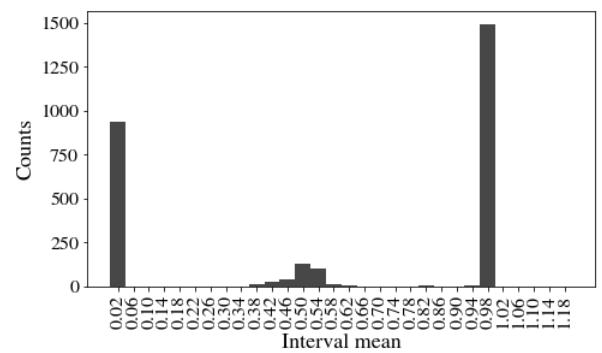
$$x_{241} : \frac{r_2+r_5}{r_3+r_6} = 0.68 \pm 1.19$$



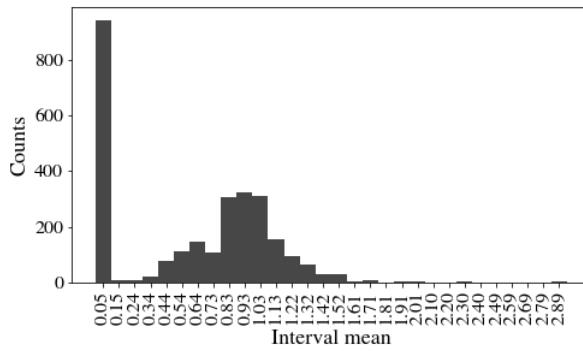
$$x_{242} : \frac{r_2+r_5}{r_3+r_7} = 1.03 \pm 8.34$$



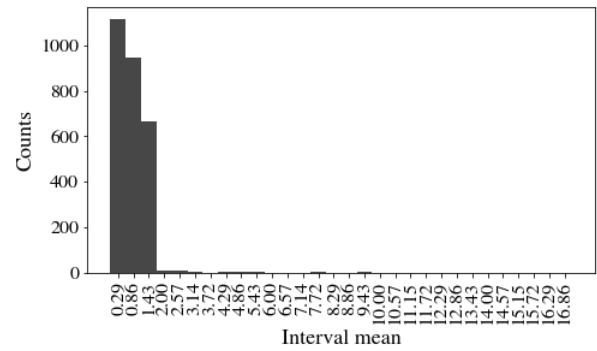
$$x_{243} : \frac{r_2+r_5}{r_3+r_8} = 1.22 \pm 8.16$$



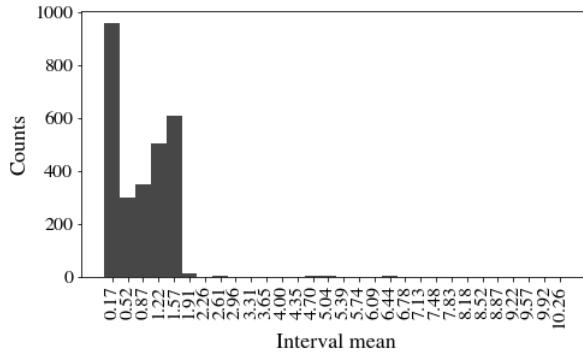
$$x_{244} : \frac{r_2+r_5}{r_4+r_5} = 0.60 \pm 0.46$$



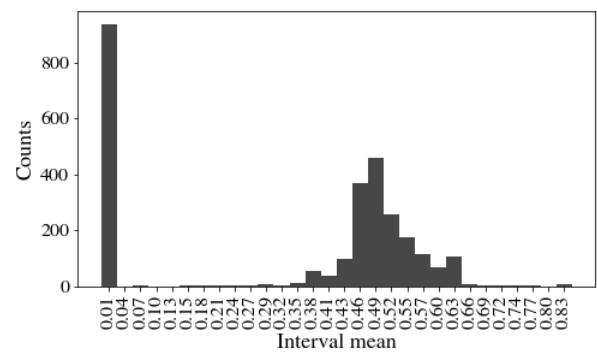
$$x_{245} : \frac{r_2+r_5}{r_4+r_6} = 0.67 \pm 1.18$$



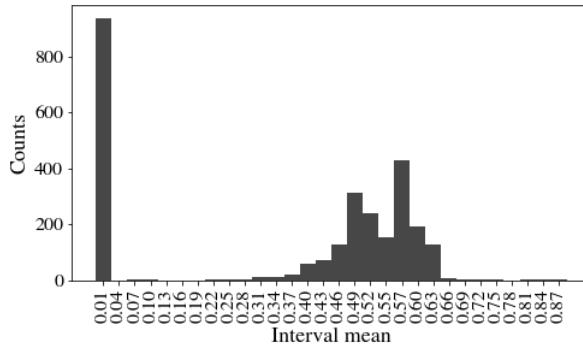
$$x_{246} : \frac{r_2+r_5}{r_4+r_7} = 1.02 \pm 8.34$$



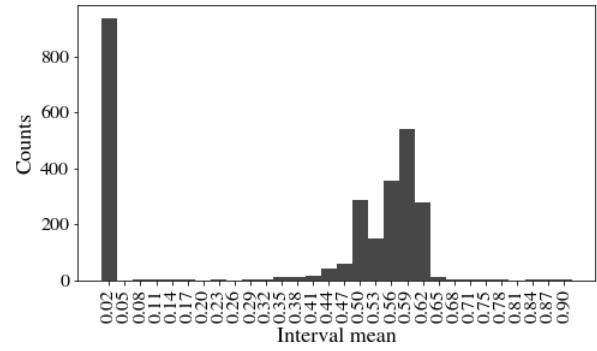
$$x_{247} : \frac{r_2+r_5}{r_4+r_8} = 1.21 \pm 8.17$$



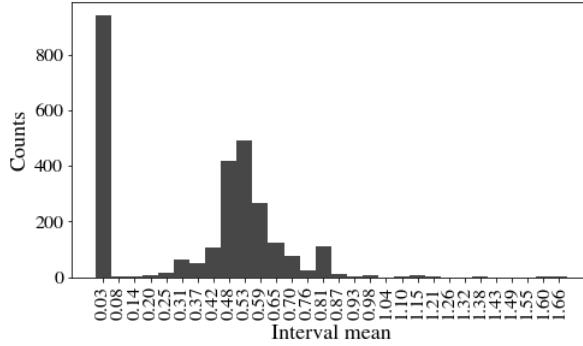
$$x_{248} : \frac{r_2+r_5}{r_5+r_6} = 0.34 \pm 0.25$$



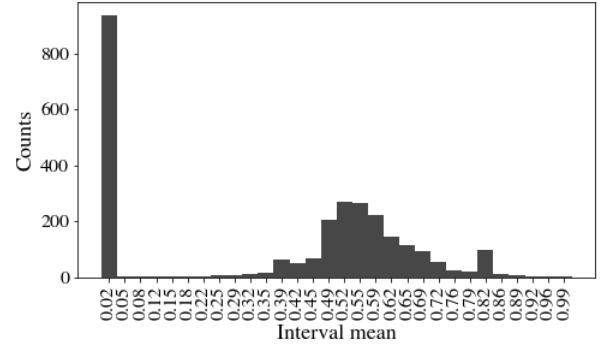
$$x_{249} : \frac{r_2+r_5}{r_5+r_7} = 0.36 \pm 0.27$$



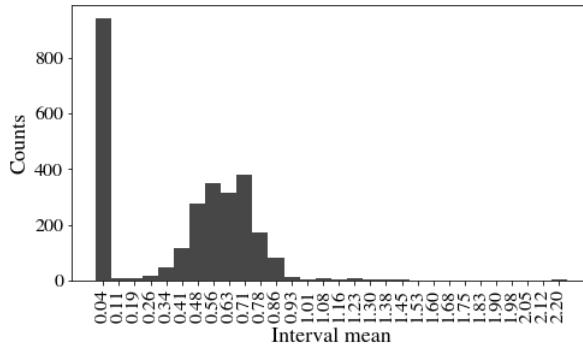
$$x_{250} : \frac{r_2+r_5}{r_5+r_8} = 0.37 \pm 0.28$$



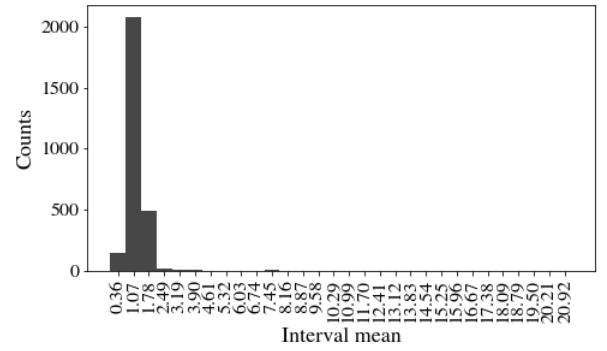
$$x_{251} : \frac{r_2+r_5}{r_6+r_7} = 0.38 \pm 0.68$$



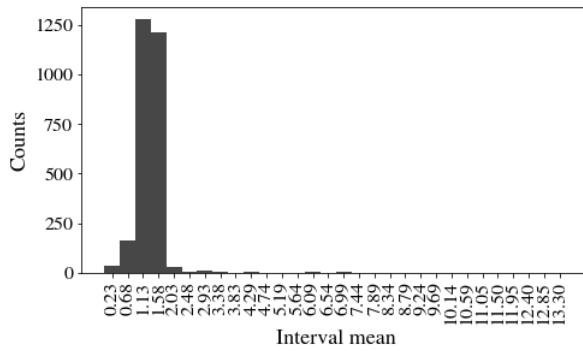
$$x_{252} : \frac{r_2+r_5}{r_6+r_7} = 0.39 \pm 0.34$$



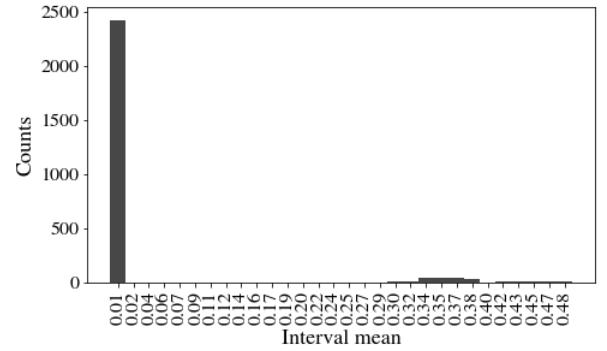
$$x_{253} : \frac{r_2+r_5}{r_7+r_8} = 0.46 \pm 1.08$$



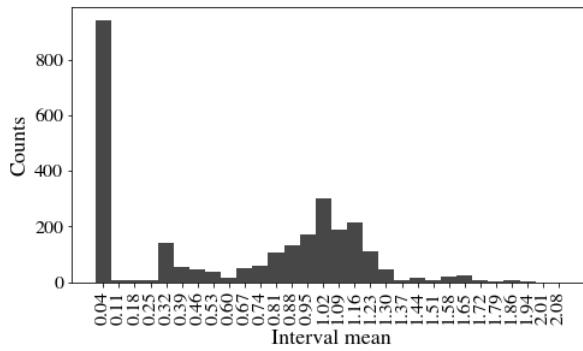
$$x_{254} : \frac{r_2+r_6}{r_2+r_7} = 1.51 \pm 9.98$$



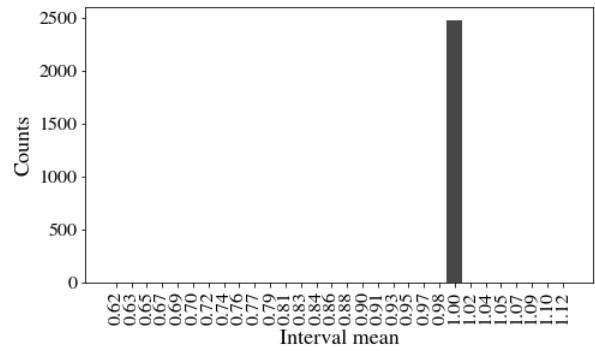
$$x_{255} : \frac{r_2+r_6}{r_2+r_8} = 1.65 \pm 6.36$$



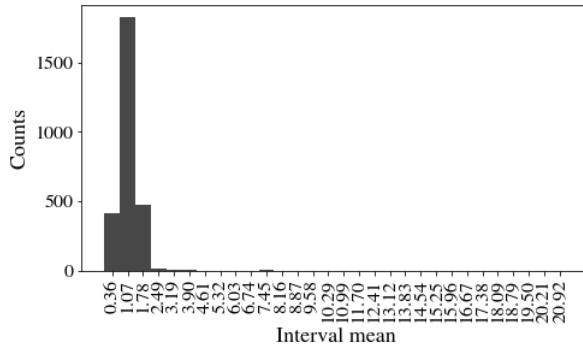
$$x_{256} : \frac{r_2+r_6}{r_3+r_4} = 0.06 \pm 0.21$$



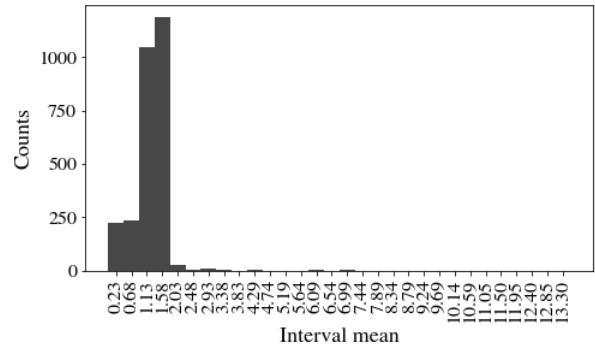
$$x_{257} : \frac{r_2+r_6}{r_3+r_5} = 0.65 \pm 0.74$$



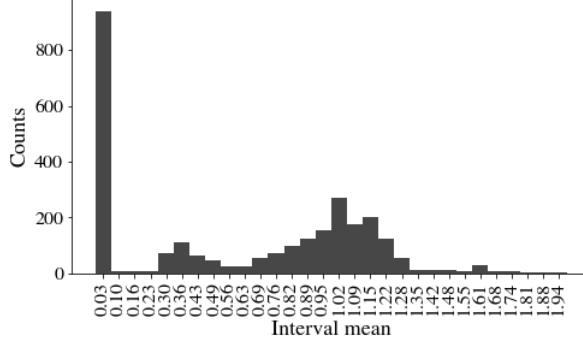
$$x_{258} : \frac{r_2+r_6}{r_3+r_6} = 0.94 \pm 0.17$$



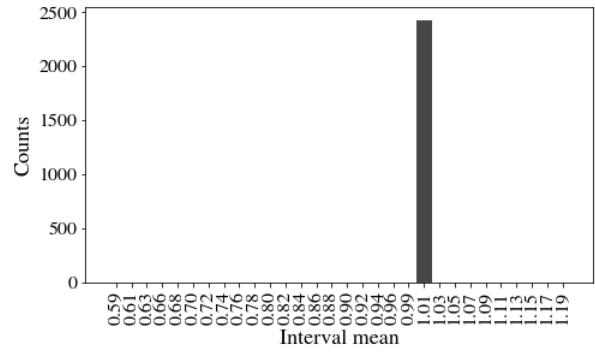
$$x_{259} : \frac{r_2+r_6}{r_3+r_7} = 1.44 \pm 9.98$$



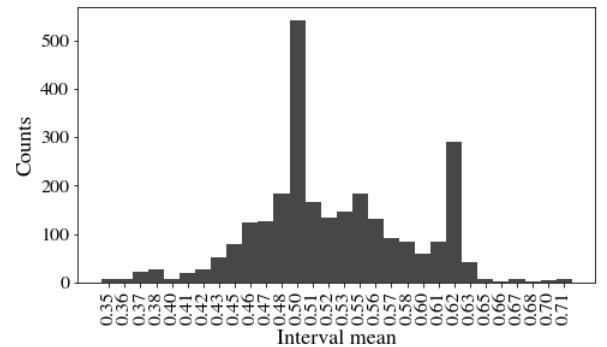
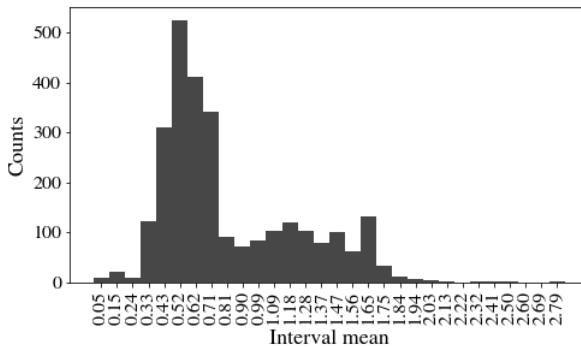
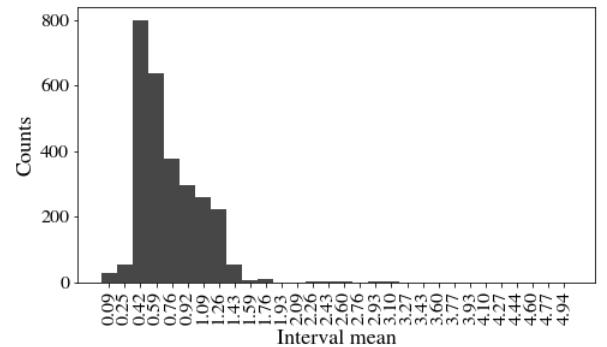
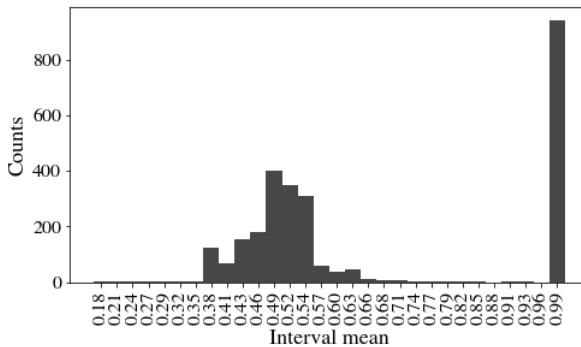
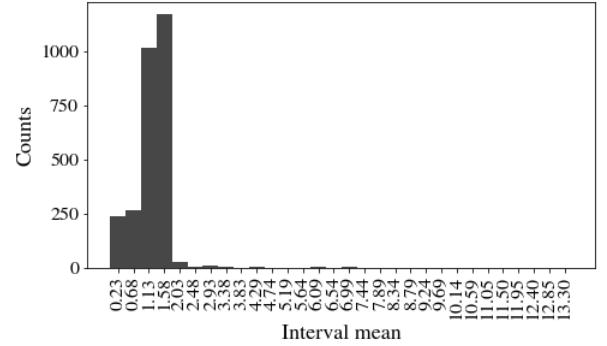
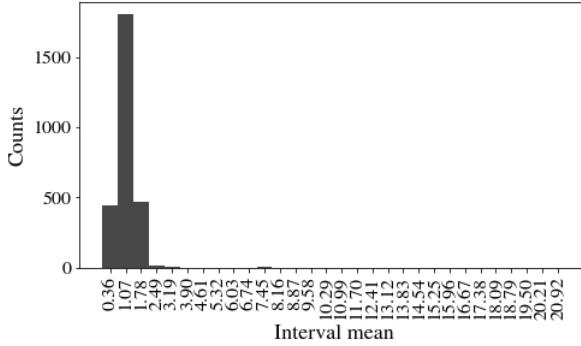
$$x_{260} : \frac{r_2+r_6}{r_3+r_8} = 1.59 \pm 6.36$$

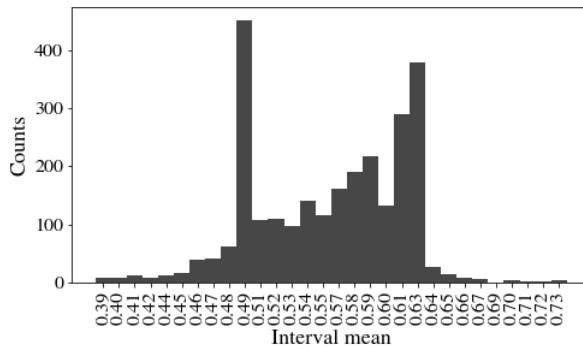


$$x_{261} : \frac{r_2+r_6}{r_4+r_5} = 0.64 \pm 0.72$$

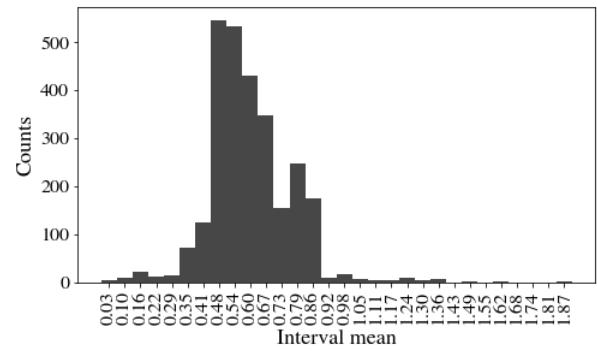


$$x_{262} : \frac{r_2+r_6}{r_4+r_6} = 0.93 \pm 0.18$$

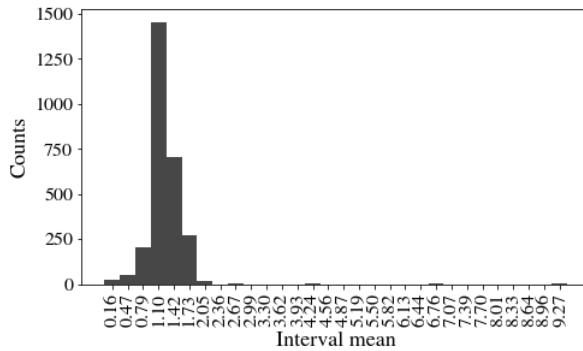




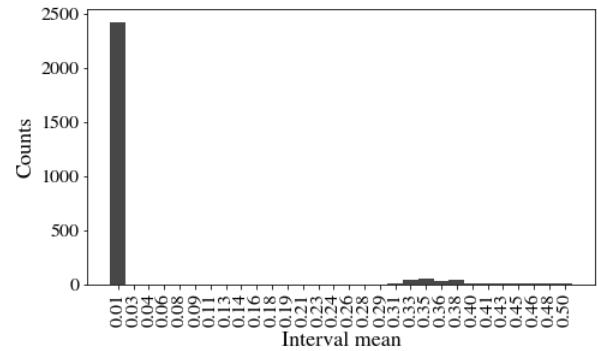
$$x_{269} : \frac{r_2+r_6}{r_6+r_8} = 0.56 \pm 0.09$$



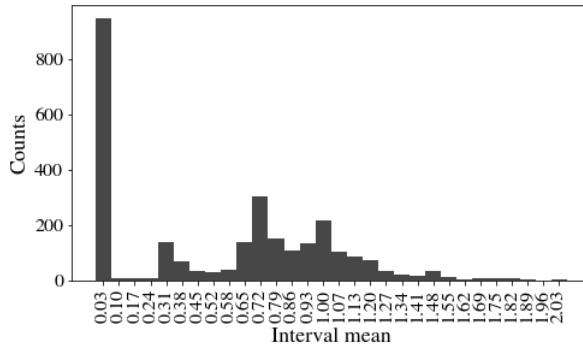
$$x_{270} : \frac{r_2+r_6}{r_7+r_8} = 0.64 \pm 0.64$$



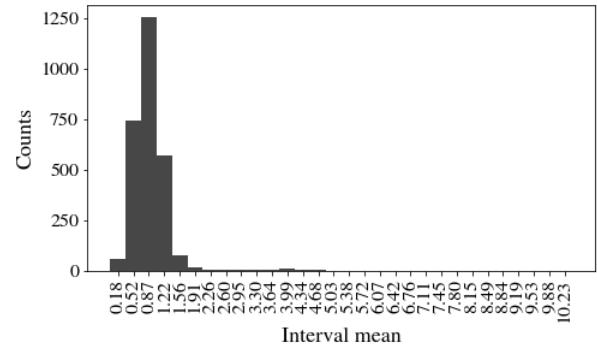
$$x_{271} : \frac{r_2+r_7}{r_2+r_8} = 1.42 \pm 5.31$$



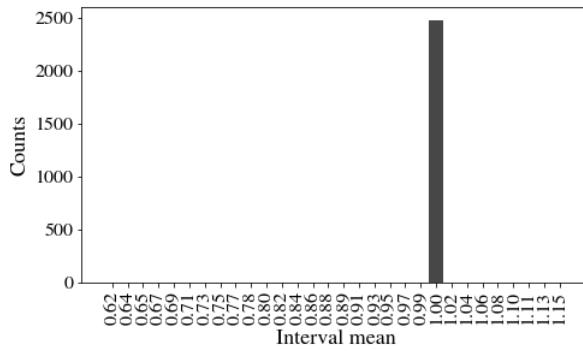
$$x_{272} : \frac{r_2+r_7}{r_3+r_4} = 0.06 \pm 0.22$$



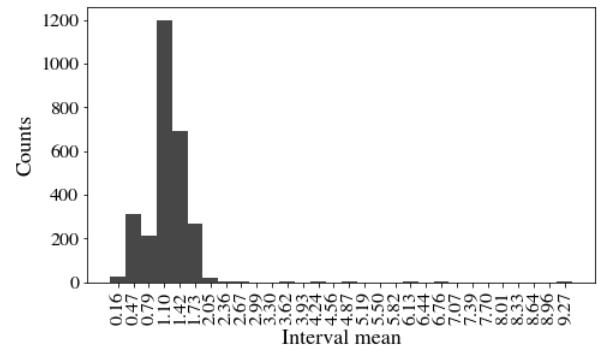
$$x_{273} : \frac{r_2+r_7}{r_3+r_5} = 0.59 \pm 0.74$$



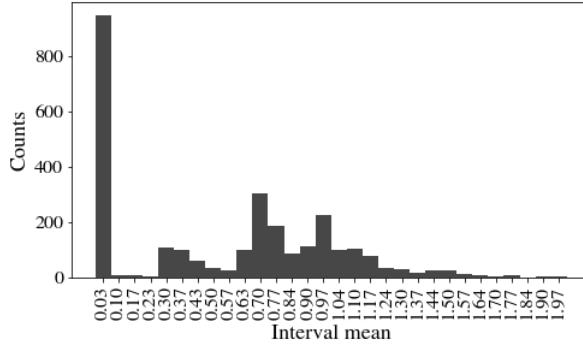
$$x_{274} : \frac{r_2+r_7}{r_3+r_6} = 1.02 \pm 5.19$$



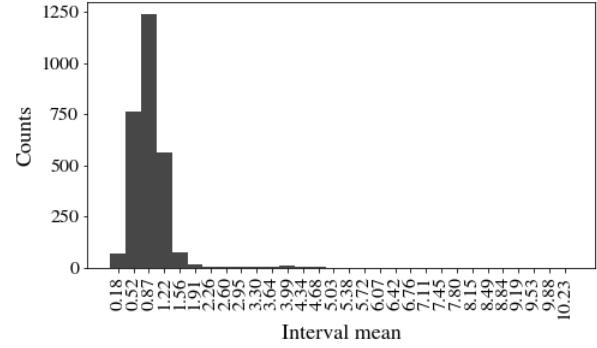
$$x_{275} : \frac{r_2+r_7}{r_3+r_7} = 0.94 \pm 0.17$$



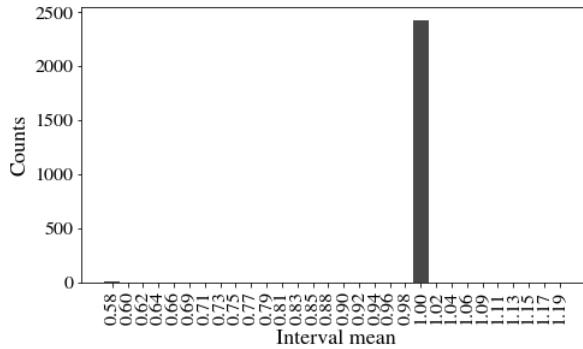
$$x_{276} : \frac{r_2+r_7}{r_3+r_8} = 1.36 \pm 5.31$$



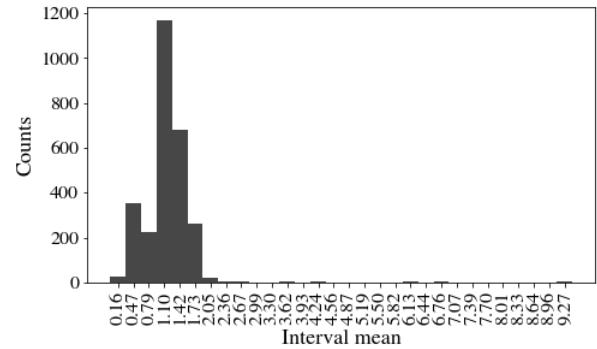
$$x_{277} : \frac{r_2+r_7}{r_4+r_5} = 0.58 \pm 0.72$$



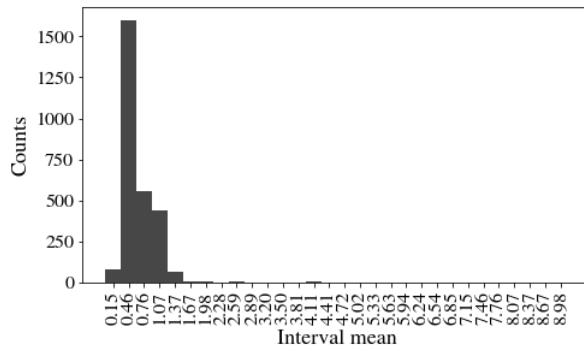
$$x_{278} : \frac{r_2+r_7}{r_4+r_6} = 1.01 \pm 5.19$$



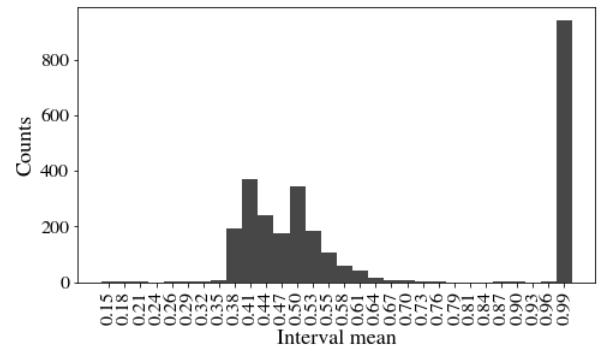
$$x_{279} : \frac{r_2+r_7}{r_4+r_7} = 0.93 \pm 0.18$$



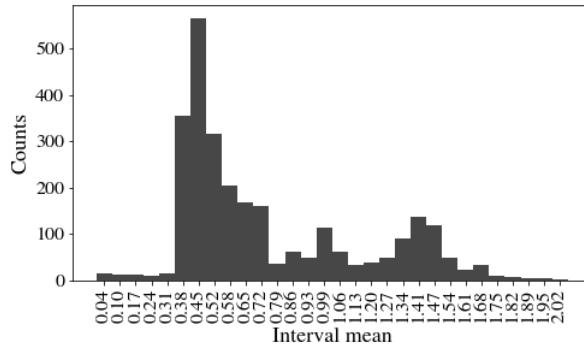
$$x_{280} : \frac{r_2+r_7}{r_4+r_8} = 1.35 \pm 5.31$$



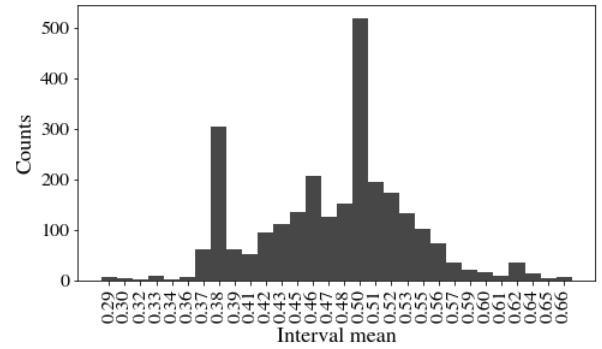
$$x_{281} : \frac{r_2+r_7}{r_5+r_6} = 0.73 \pm 5.16$$



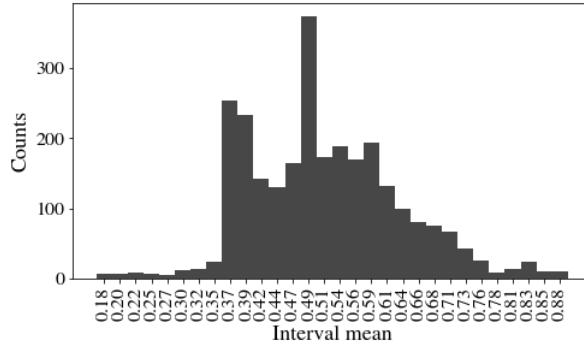
$$x_{282} : \frac{r_2+r_7}{r_5+r_7} = 0.65 \pm 0.26$$



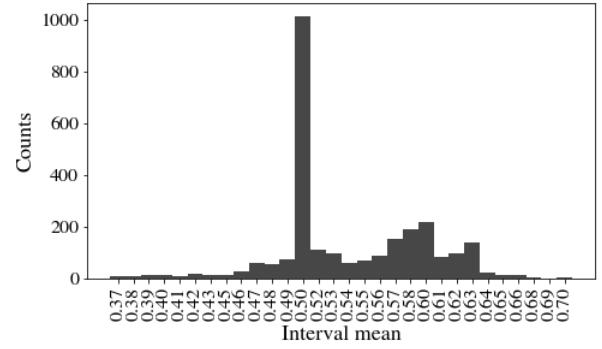
$$x_{283} : \frac{r_2+r_7}{r_5+r_8} = 0.78 \pm 0.69$$



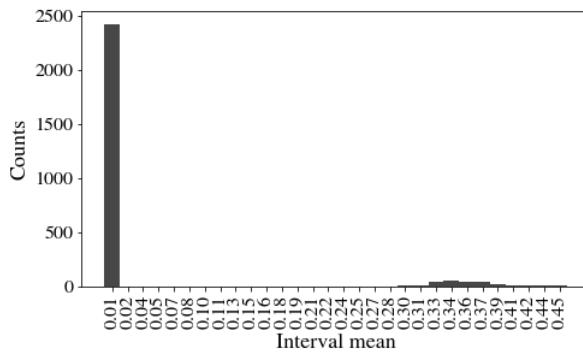
$$x_{284} : \frac{r_2+r_7}{r_6+r_7} = 0.48 \pm 0.10$$



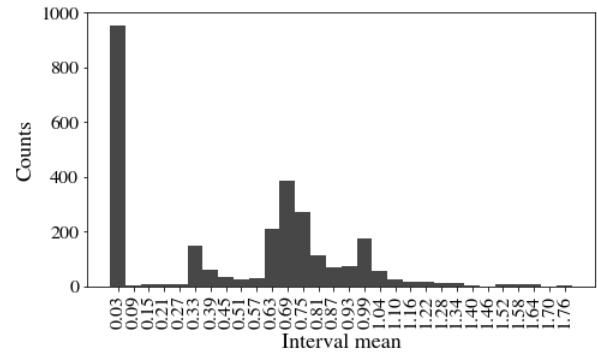
$$x_{285} : \frac{r_2+r_7}{r_6+r_8} = 0.52 \pm 0.18$$



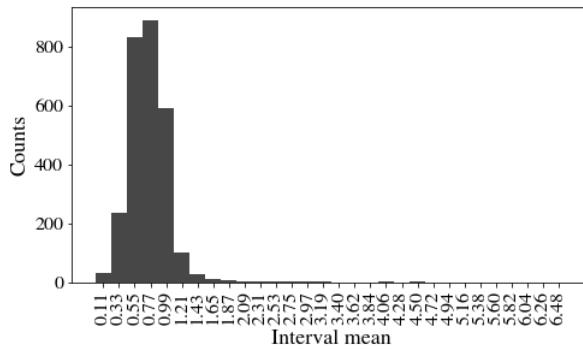
$$x_{286} : \frac{r_2+r_7}{r_7+r_8} = 0.54 \pm 0.09$$



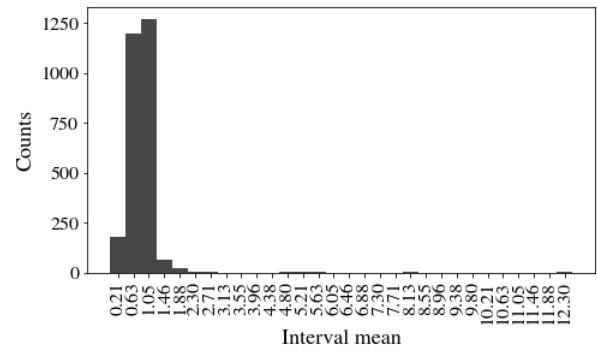
$$x_{287} : \frac{r_2+r_8}{r_3+r_4} = 0.06 \pm 0.20$$



$$x_{288} : \frac{r_2+r_8}{r_3+r_4} = 0.52 \pm 0.65$$

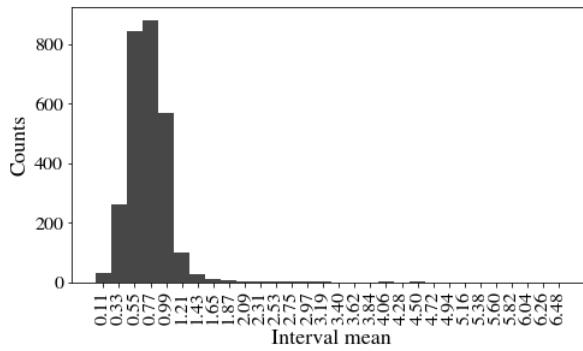


$$x_{289} : \frac{r_2+r_8}{r_3+r_6} = 0.89 \pm 4.66$$

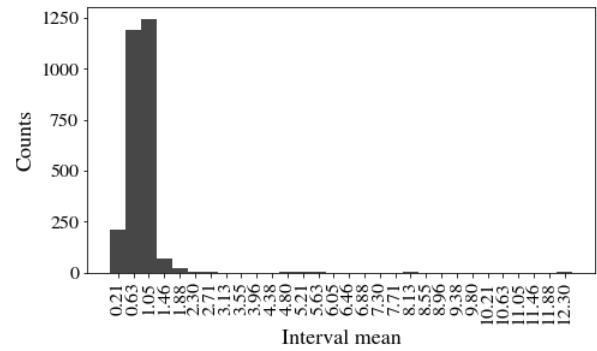


$$x_{291} : \frac{r_2+r_8}{r_3+r_8} = 0.94 \pm 0.17$$

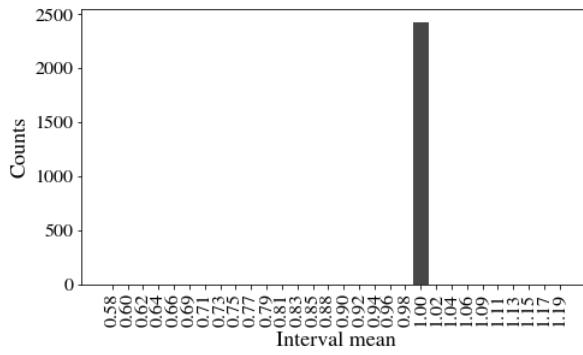
$$x_{292} : \frac{r_2+r_8}{r_4+r_5} = 0.51 \pm 0.62$$



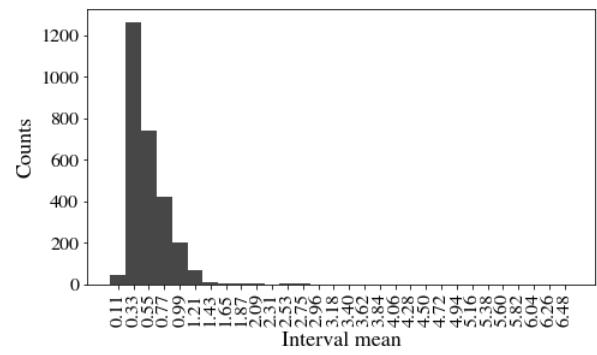
$$x_{293} : \frac{r_2+r_8}{r_4+r_6} = 0.88 \pm 4.66$$



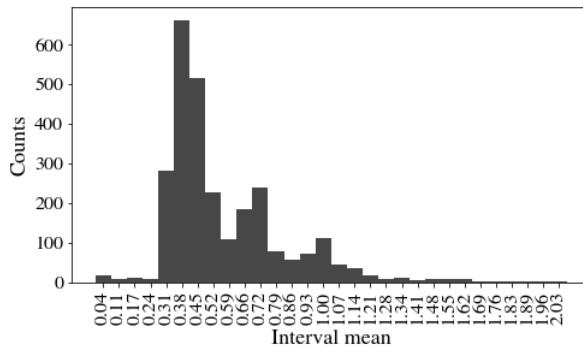
$$x_{294} : \frac{r_2+r_8}{r_4+r_7} = 1.06 \pm 6.68$$



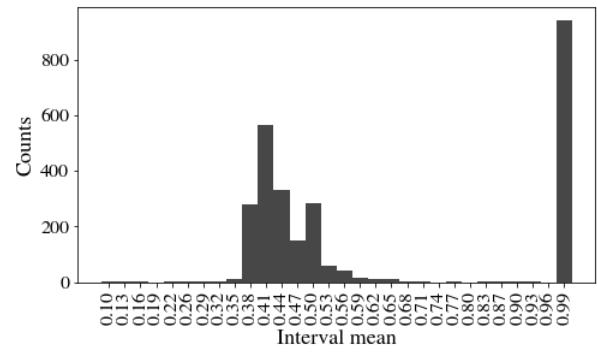
$$x_{295} : \frac{r_2+r_8}{r_4+r_8} = 0.93 \pm 0.18$$



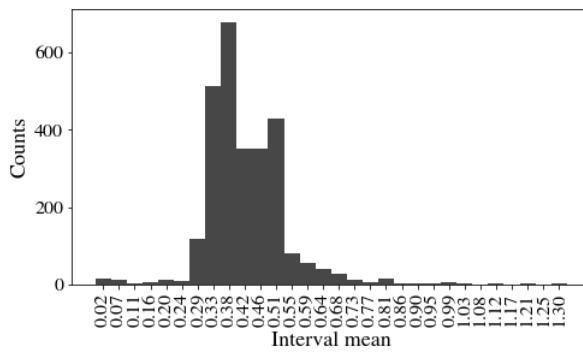
$$x_{296} : \frac{r_2+r_8}{r_5+r_6} = 0.63 \pm 4.60$$



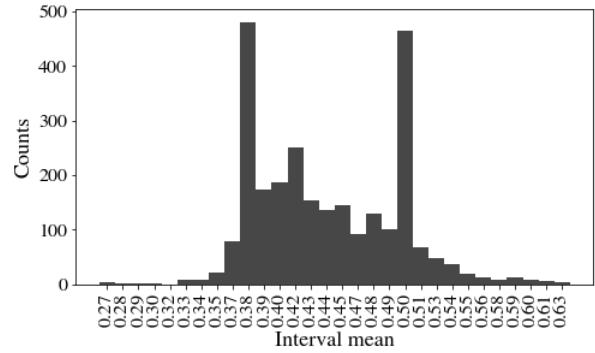
$$x_{297} : \frac{r_2+r_8}{r_5+r_7} = 0.60 \pm 0.74$$



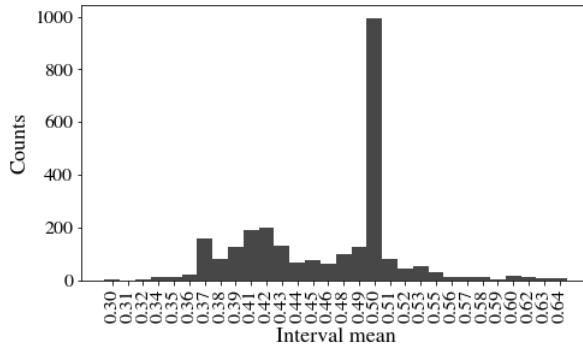
$$x_{298} : \frac{r_2+r_8}{r_5+r_8} = 0.63 \pm 0.28$$



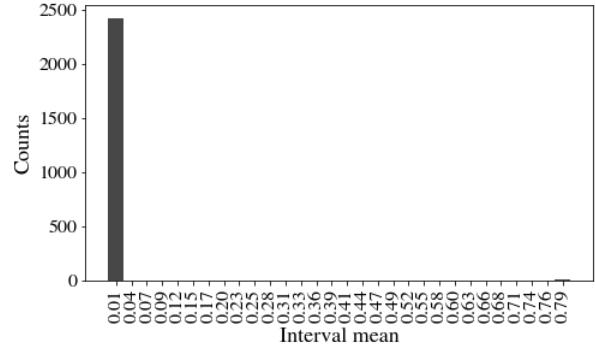
$$x_{299} : \frac{r_2+r_8}{r_6+r_7} = 0.43 \pm 0.46$$



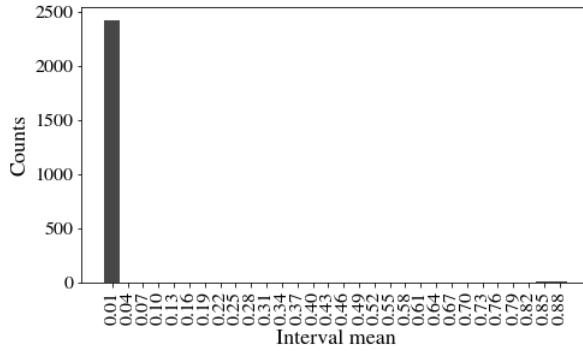
$$x_{300} : \frac{r_2+r_8}{r_6+r_7} = 0.44 \pm 0.09$$



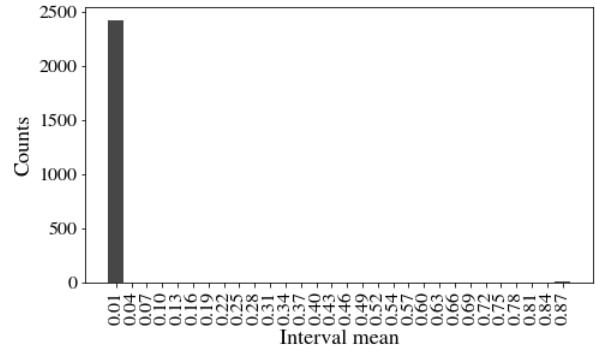
$$x_{301} : \frac{r_2+r_8}{r_7+r_8} = 0.47 \pm 0.09$$



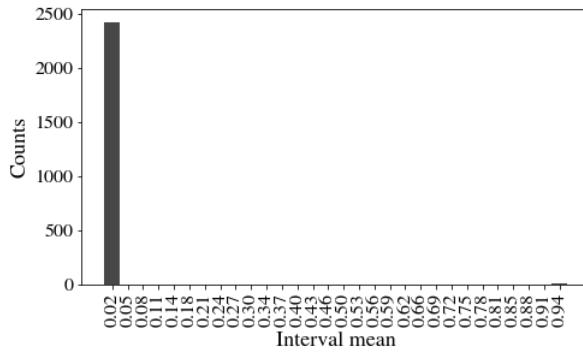
$$x_{302}^* : \frac{r_3+r_4}{r_3+r_5} = 0.13 \pm 0.36$$



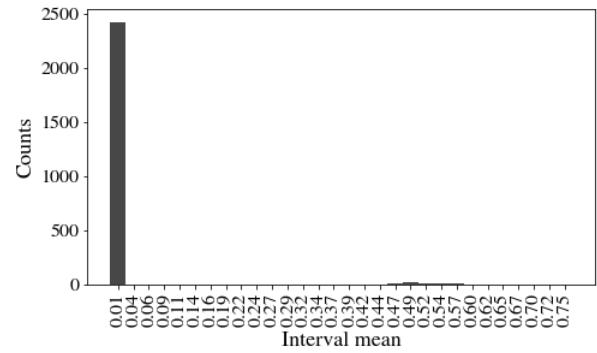
$$x_{303} : \frac{r_3+r_4}{r_3+r_6} = 0.14 \pm 0.38$$



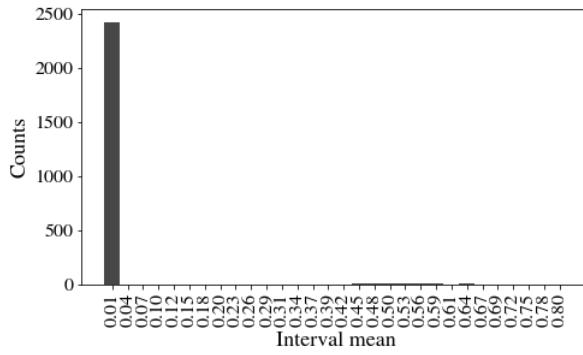
$$x_{304} : \frac{r_3+r_4}{r_3+r_7} = 0.14 \pm 0.38$$



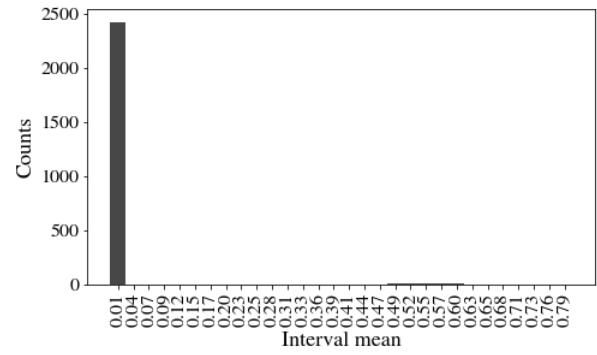
$$x_{305} : \frac{r_3+r_4}{r_3+r_8} = 0.15 \pm 0.41$$



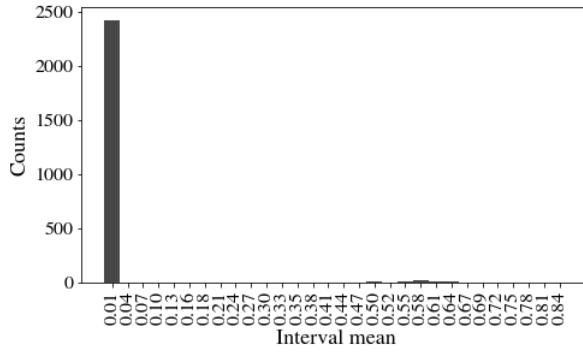
$$x_{306} : \frac{r_3+r_4}{r_4+r_5} = 0.12 \pm 0.32$$



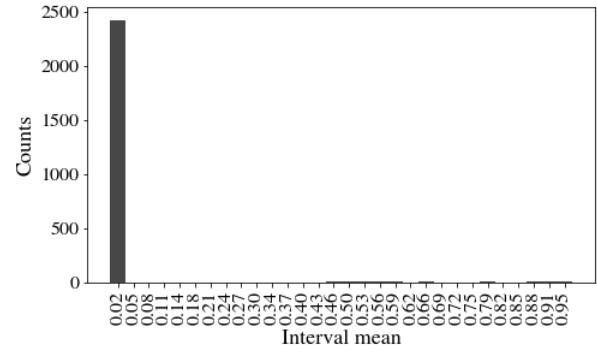
$$x_{307} : \frac{r_3+r_4}{r_4+r_6} = 0.13 \pm 0.35$$



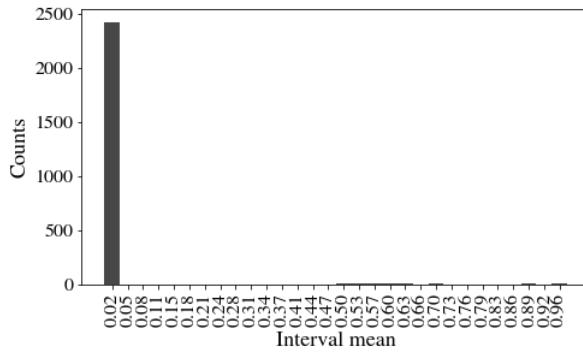
$$x_{308} : \frac{r_3+r_4}{r_4+r_7} = 0.13 \pm 0.36$$



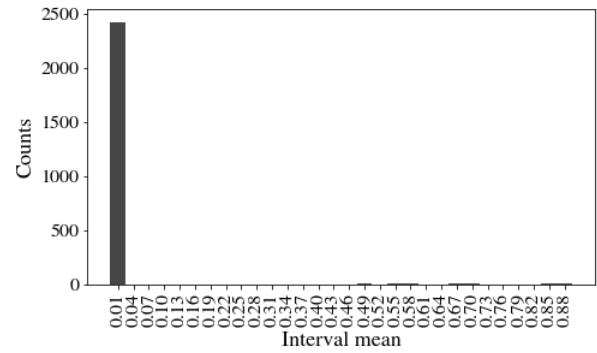
$$x_{309} : \frac{r_3+r_4}{r_4+r_8} = 0.13 \pm 0.36$$



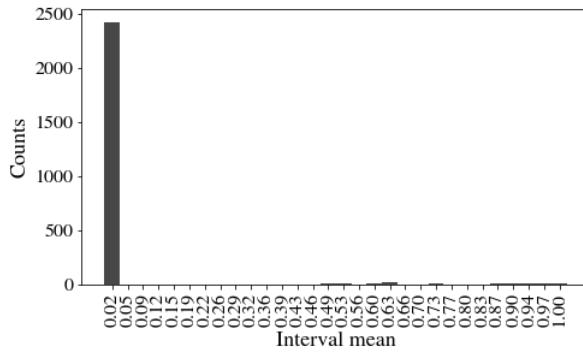
$$x_{310} : \frac{r_3+r_4}{r_5+r_6} = 0.13 \pm 0.42$$



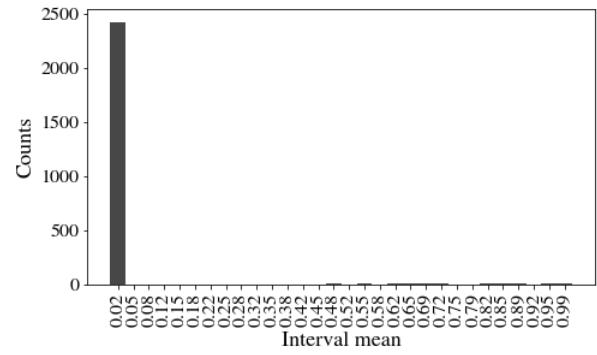
$$x_{311} : \frac{r_3+r_4}{r_5+r_7} = 0.13 \pm 0.42$$



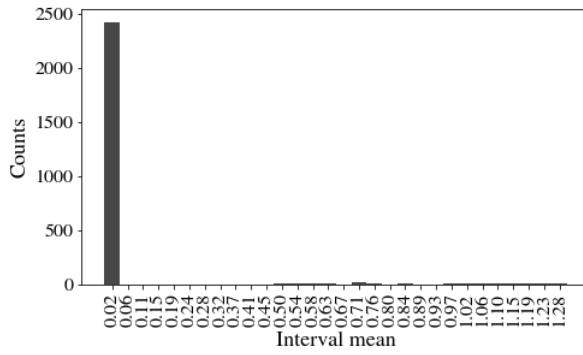
$$x_{312} : \frac{r_3+r_4}{r_5+r_8} = 0.13 \pm 0.38$$



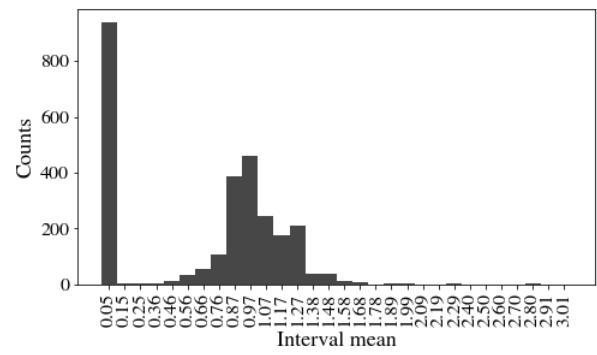
$$x_{313} : \frac{r_3+r_4}{r_6+r_7} = 0.15 \pm 0.44$$



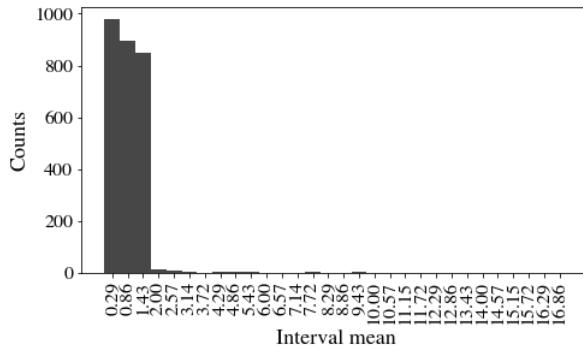
$$x_{314} : \frac{r_3+r_4}{r_6+r_8} = 0.15 \pm 0.43$$



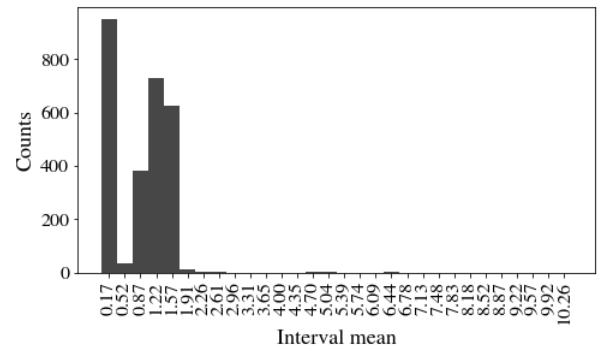
$$x_{315} : \frac{r_3+r_4}{r_7+r_8} = 0.16 \pm 0.57$$



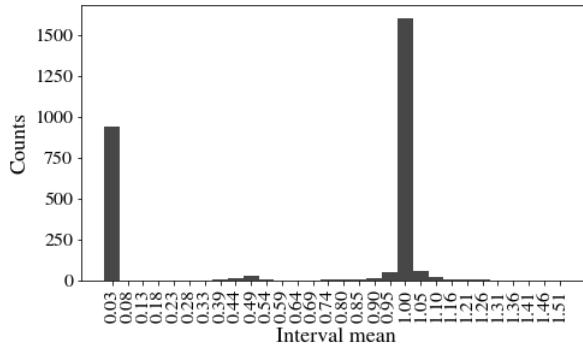
$$x_{316} : \frac{r_3+r_5}{r_3+r_6} = 0.73 \pm 1.19$$



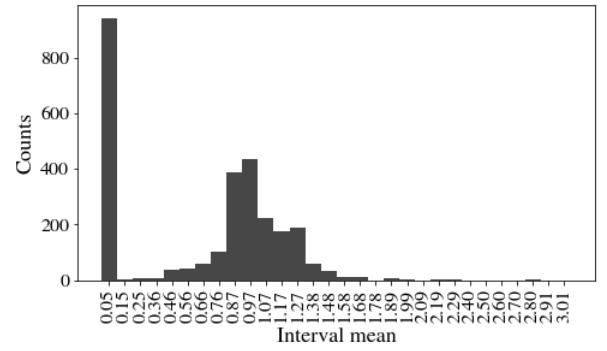
$$x_{317} : \frac{r_3+r_5}{r_3+r_7} = 1.09 \pm 8.34$$



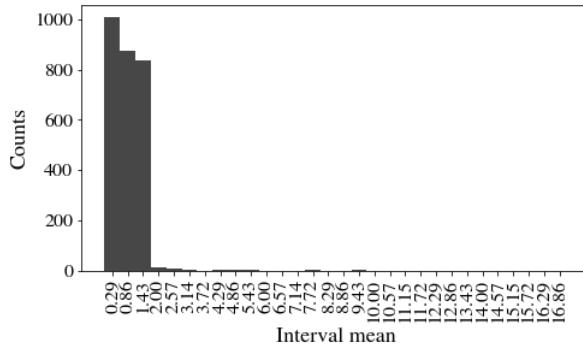
$$x_{318} : \frac{r_3+r_5}{r_3+r_8} = 1.28 \pm 8.16$$



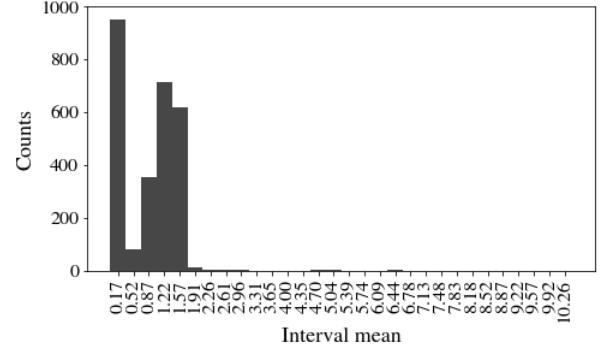
$$x_{319} : \frac{r_3+r_5}{r_4+r_5} = 0.66 \pm 0.48$$



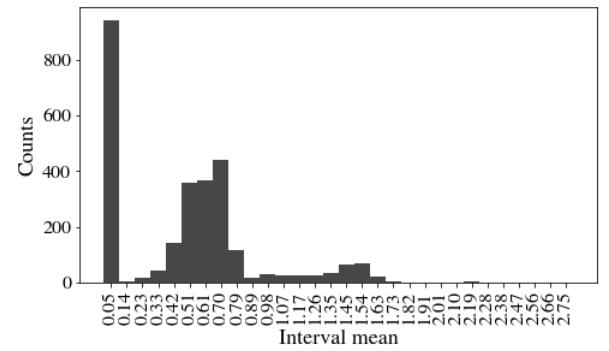
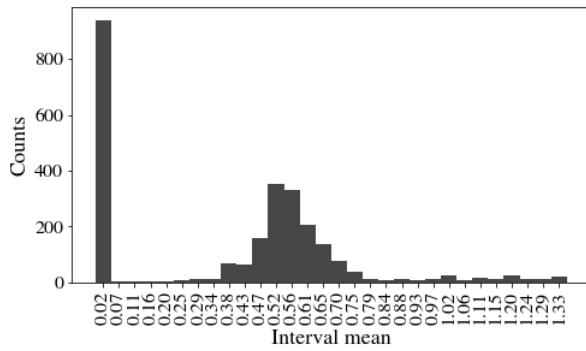
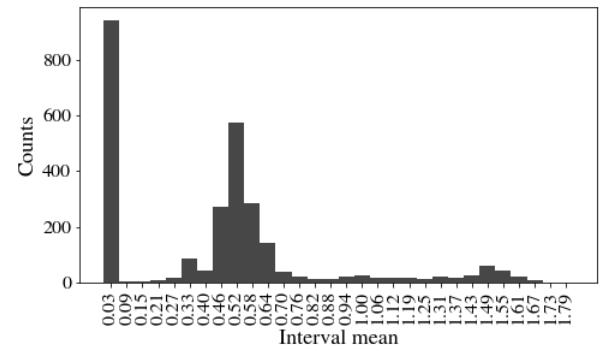
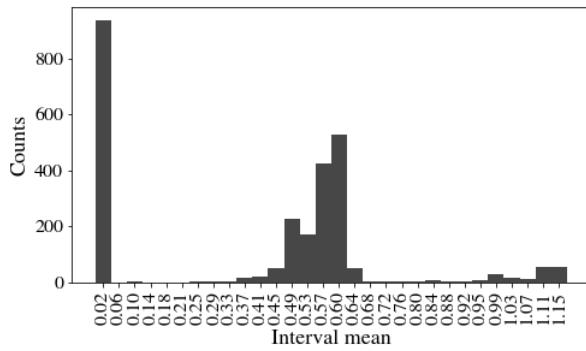
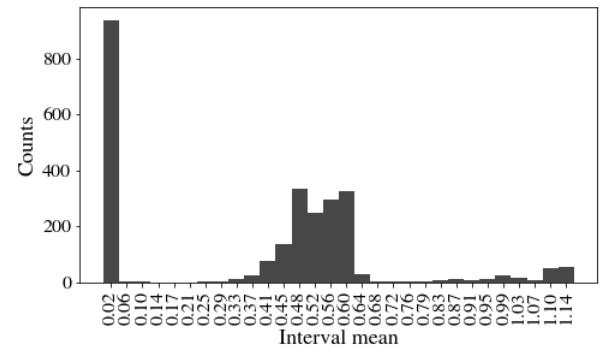
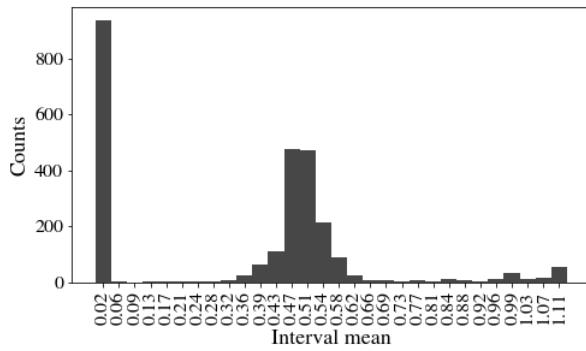
$$x_{320} : \frac{r_3+r_5}{r_4+r_6} = 0.73 \pm 1.19$$

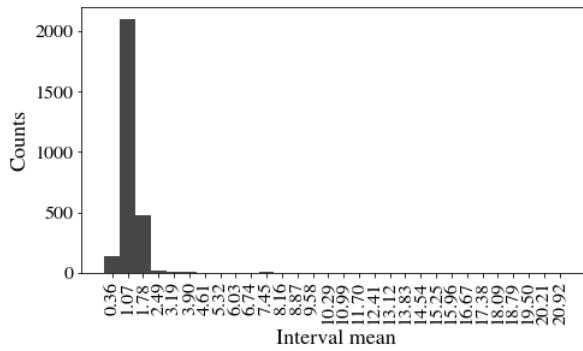


$$x_{321} : \frac{r_3+r_5}{r_4+r_7} = 1.08 \pm 8.34$$

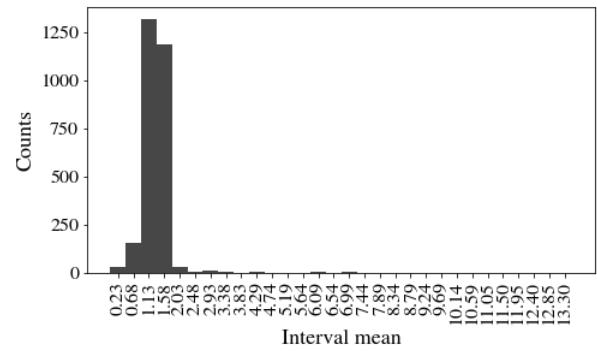


$$x_{322} : \frac{r_3+r_5}{r_4+r_8} = 1.27 \pm 8.16$$

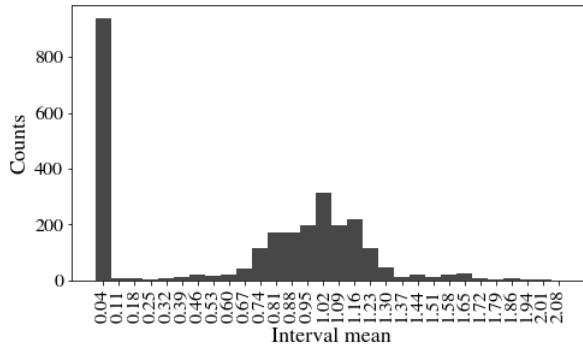




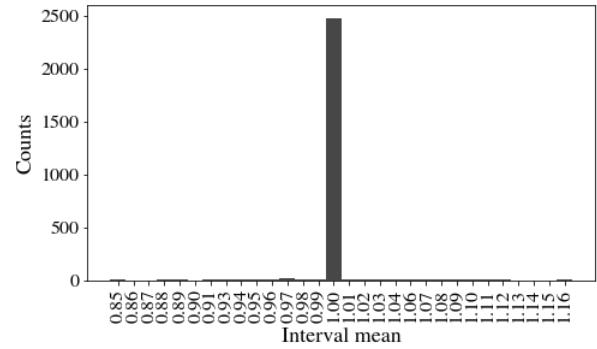
$$x_{329} : \frac{r_3+r_6}{r_3+r_7} = 1.50 \pm 9.98$$



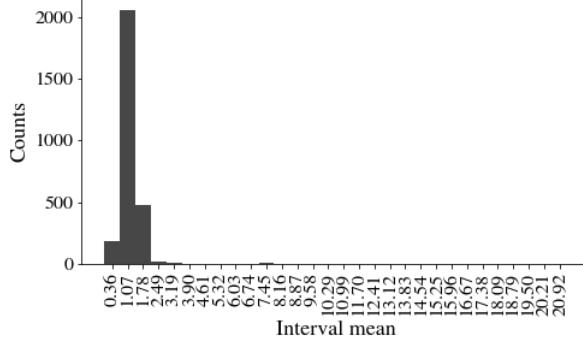
$$x_{330} : \frac{r_3+r_6}{r_3+r_8} = 1.65 \pm 6.36$$



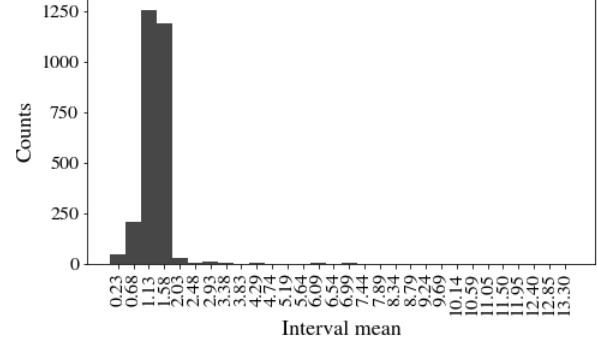
$$x_{331} : \frac{r_3+r_6}{r_4+r_5} = 0.69 \pm 0.73$$



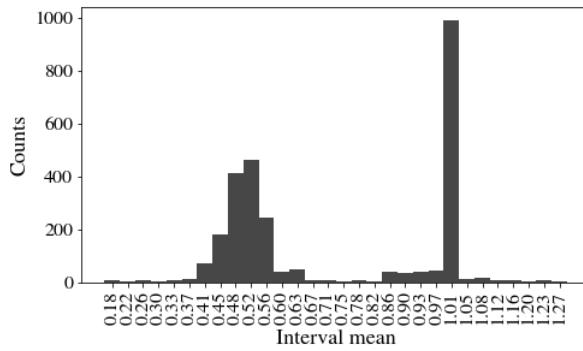
$$x_{332}^* : \frac{r_3+r_6}{r_4+r_6} = 0.99 \pm 0.09$$



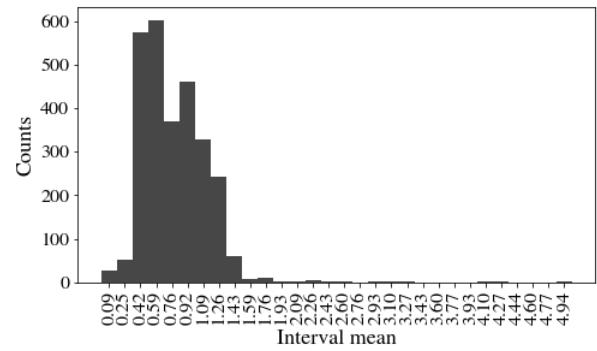
$$x_{333} : \frac{r_3+r_6}{r_4+r_7} = 1.49 \pm 9.98$$



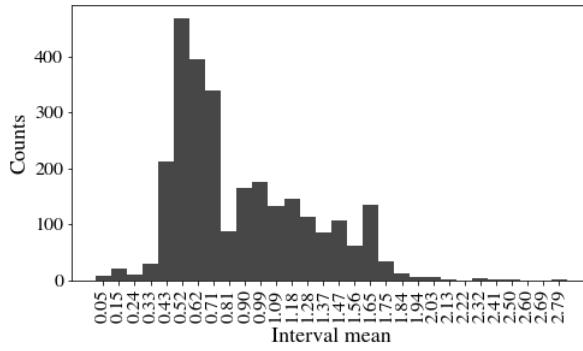
$$x_{334} : \frac{r_3+r_6}{r_4+r_8} = 1.64 \pm 6.36$$



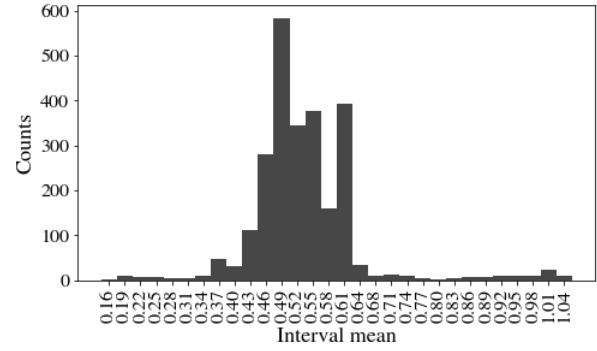
$$x_{335}^* : \frac{r_3+r_6}{r_5+r_6} = 0.73 \pm 0.28$$



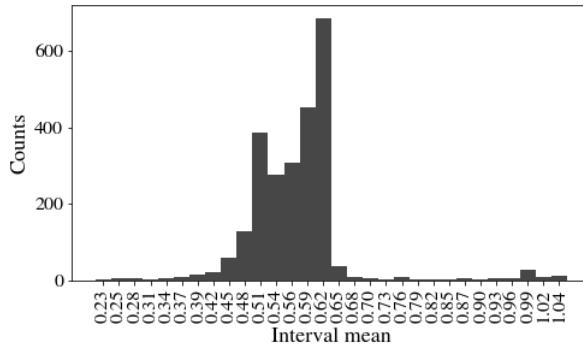
$$x_{336} : \frac{r_3+r_6}{r_5+r_7} = 0.86 \pm 2.24$$



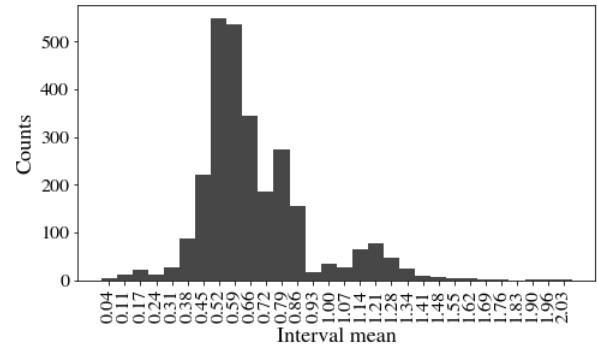
$$x_{337} : \frac{r_3+r_6}{r_5+r_8} = 0.92 \pm 1.04$$



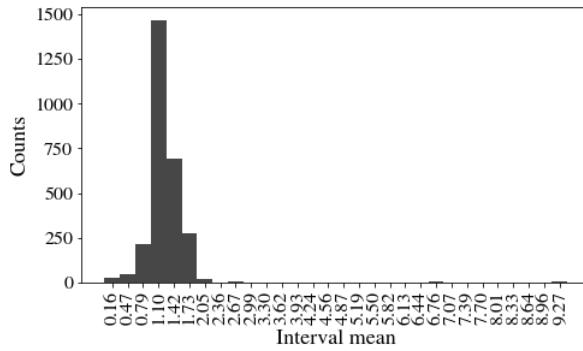
$$x_{338}^* : \frac{r_3+r_6}{r_6+r_7} = 0.60 \pm 0.23$$

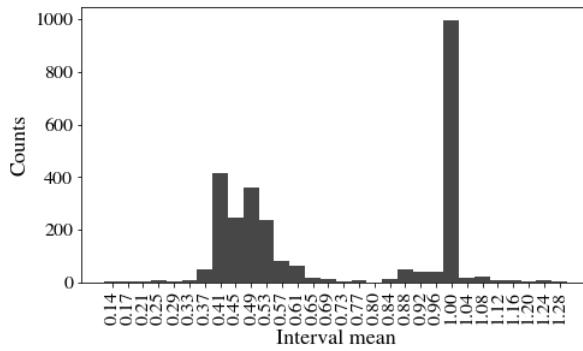


$$x_{339}^* : \frac{r_3+r_6}{r_6+r_8} = 0.63 \pm 0.21$$

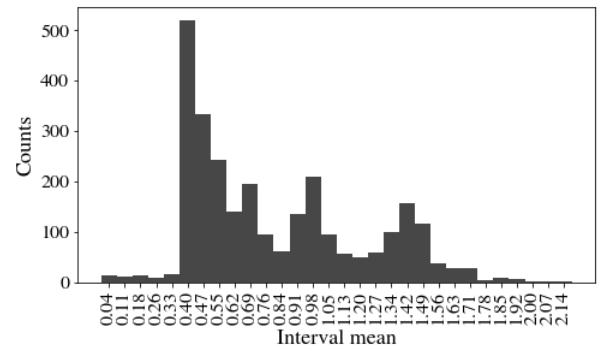


$$x_{340}^* : \frac{r_3+r_6}{r_7+r_8} = 0.71 \pm 0.73$$

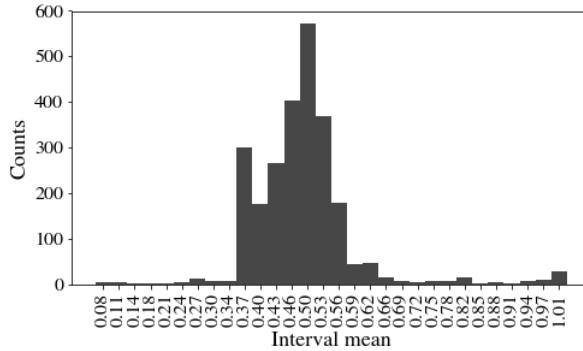




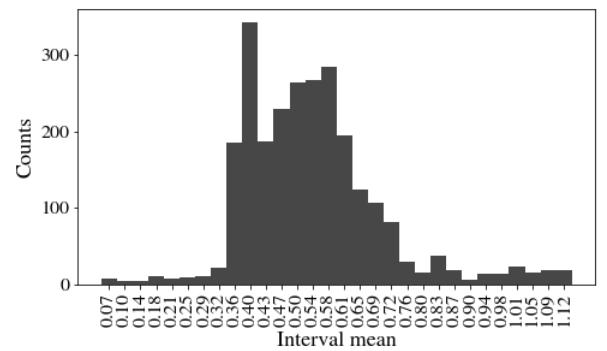
$$x_{347} : \frac{r_3+r_7}{r_5+r_7} = 0.71 \pm 0.30$$



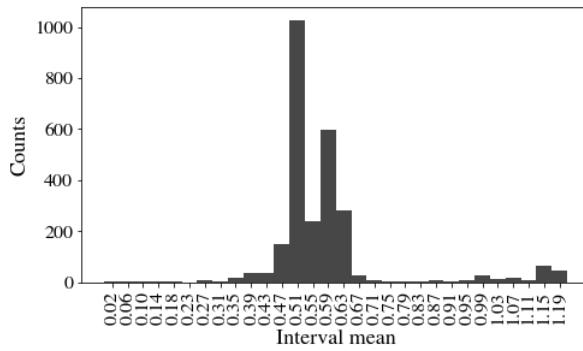
$$x_{348} : \frac{r_3+r_7}{r_5+r_8} = 0.84 \pm 0.68$$



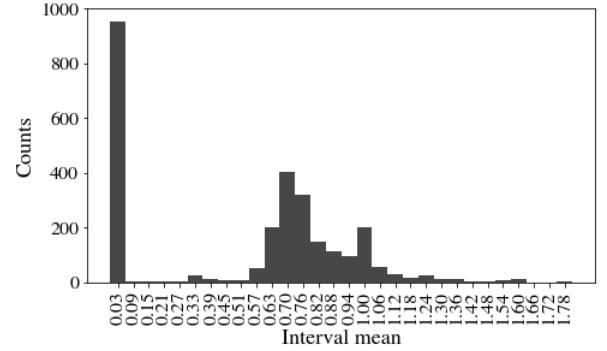
$$x_{349}^* : \frac{r_3+r_7}{r_6+r_7} = 0.55 \pm 0.24$$



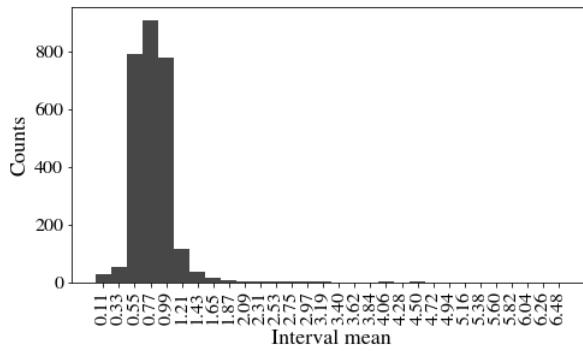
$$x_{350}^* : \frac{r_3+r_7}{r_6+r_8} = 0.59 \pm 0.28$$



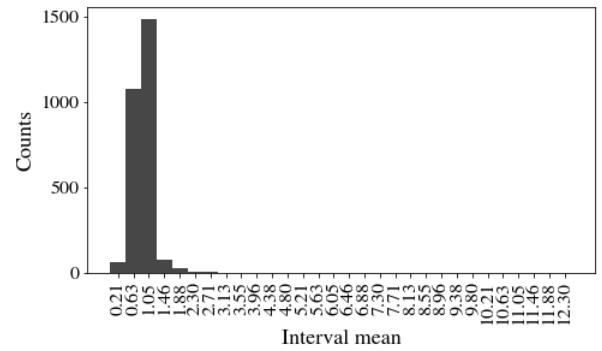
$$x_{351} : \frac{r_3+r_7}{r_7+r_8} = 0.61 \pm 0.30$$



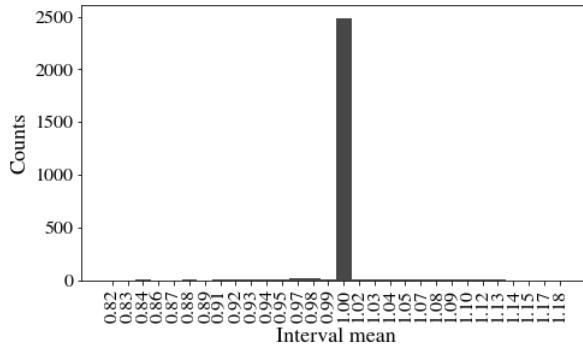
$$x_{352} : \frac{r_3+r_8}{r_4+r_5} = 0.56 \pm 0.64$$



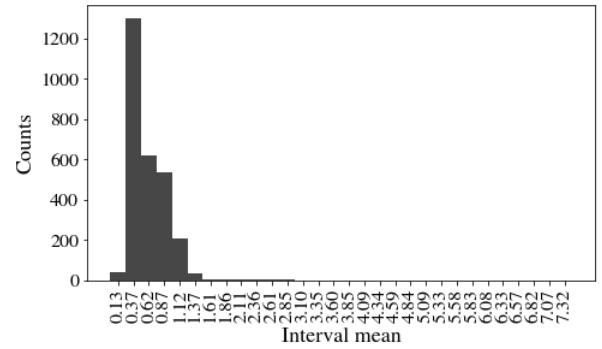
$$x_{353} : \frac{r_3+r_8}{r_4+r_6} = 0.94 \pm 4.66$$



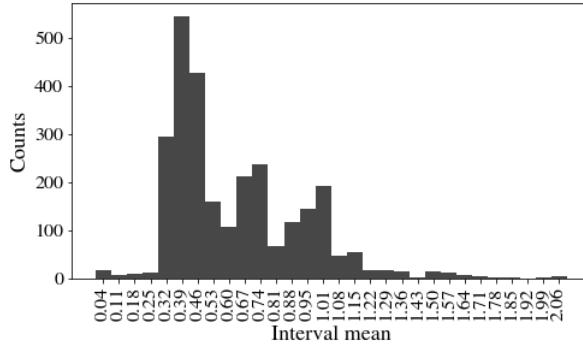
$$x_{354} : \frac{r_3+r_8}{r_4+r_7} = 1.12 \pm 6.68$$



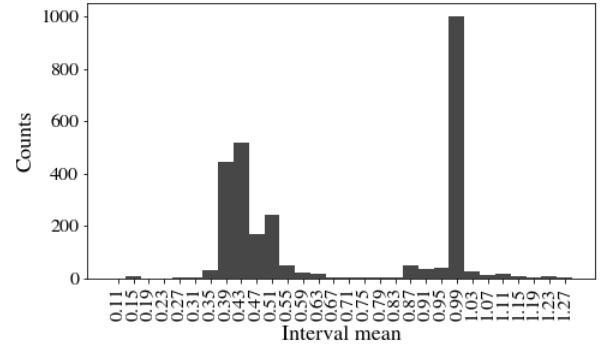
$$x_{355} : \frac{r_3+r_8}{r_4+r_8} = 0.99 \pm 0.10$$



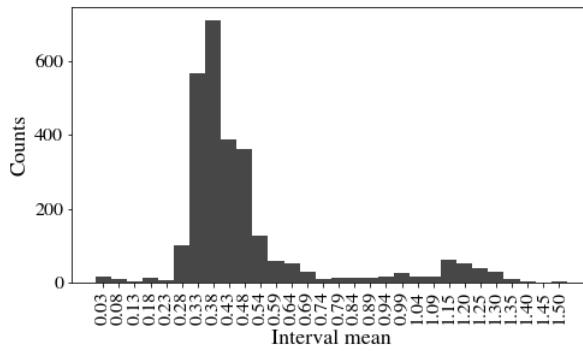
$$x_{356} : \frac{r_3+r_8}{r_5+r_6} = 0.69 \pm 4.61$$



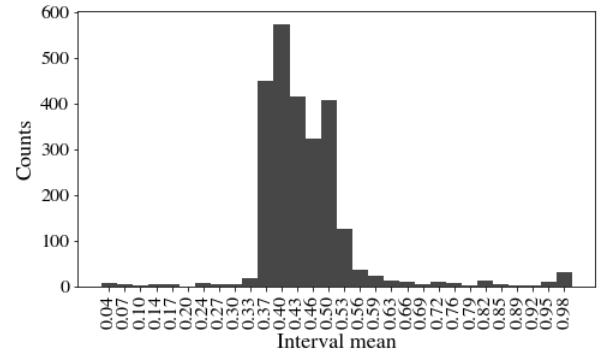
$$x_{357} : \frac{r_3+r_8}{r_5+r_7} = 0.66 \pm 0.76$$



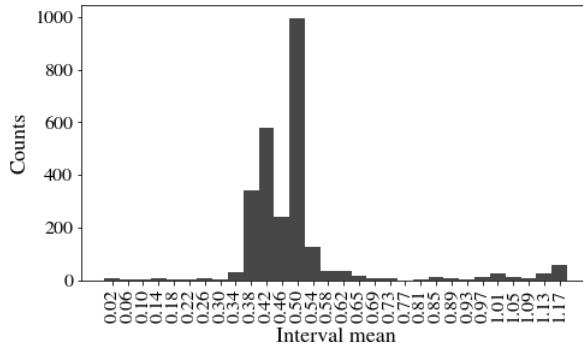
$$x_{358} : \frac{r_3+r_8}{r_5+r_8} = 0.69 \pm 0.30$$



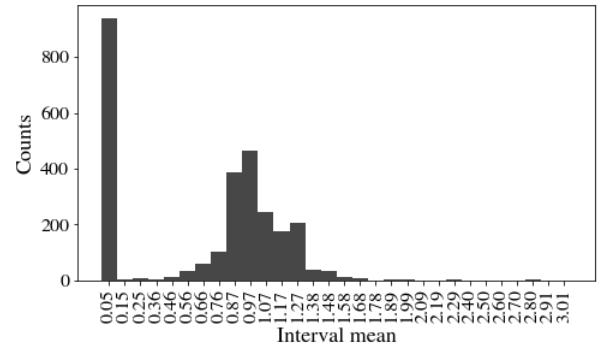
$$x_{359}^* : \frac{r_3+r_8}{r_6+r_7} = 0.50 \pm 0.52$$



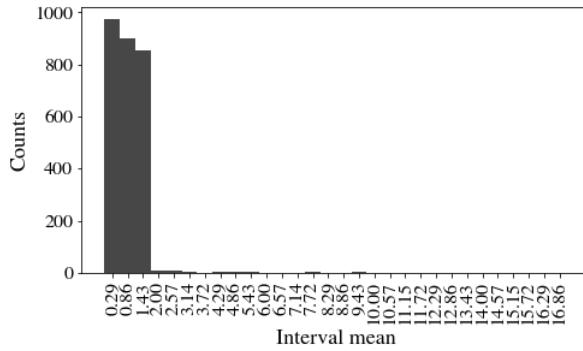
$$x_{360}^* : \frac{r_3+r_8}{r_6+r_7} = 0.51 \pm 0.24$$



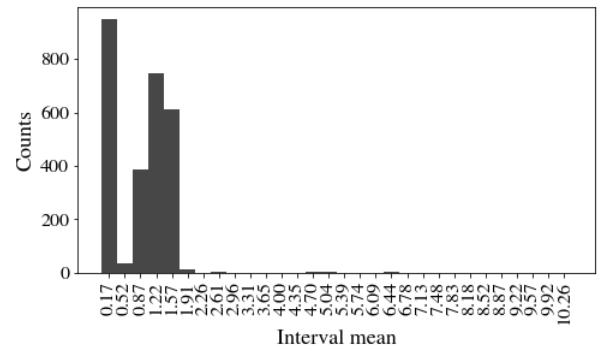
$$x_{361} : \frac{r_3+r_8}{r_7+r_8} = 0.54 \pm 0.32$$



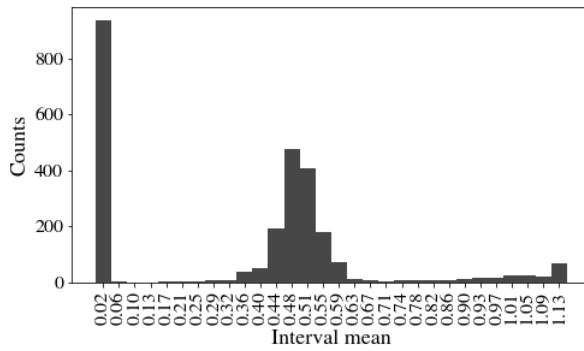
$$x_{362} : \frac{r_4+r_5}{r_4+r_6} = 0.73 \pm 1.19$$



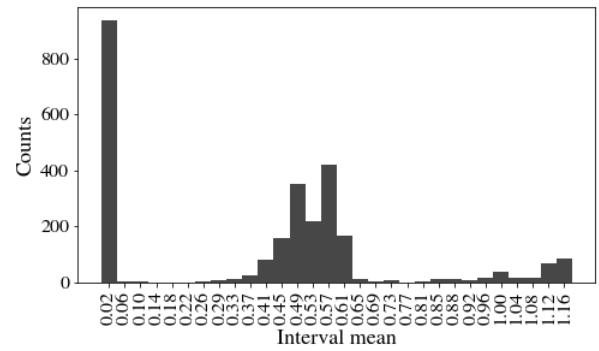
$$x_{363} : \frac{r_4+r_5}{r_4+r_7} = 1.09 \pm 8.34$$



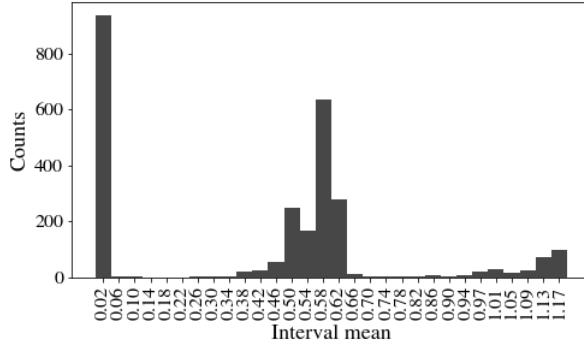
$$x_{364} : \frac{r_4+r_5}{r_4+r_8} = 1.28 \pm 8.16$$



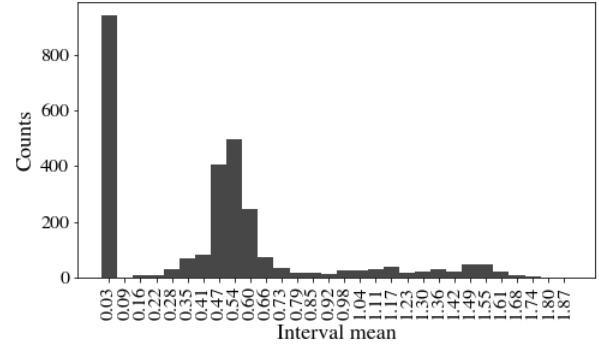
$$x_{365} : \frac{r_4+r_5}{r_5+r_6} = 0.40 \pm 0.37$$



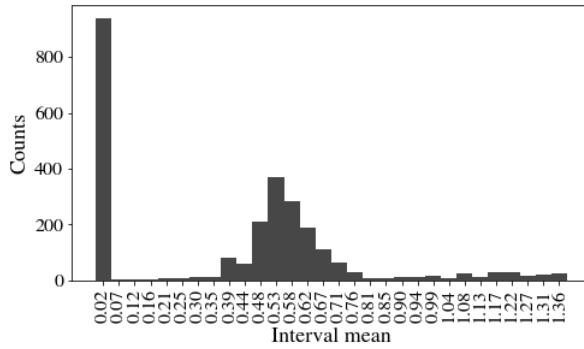
$$x_{366} : \frac{r_4+r_5}{r_5+r_7} = 0.42 \pm 0.38$$



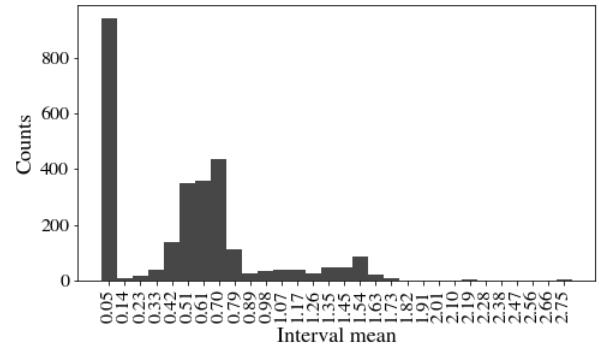
$$x_{367} : \frac{r_4+r_5}{r_5+r_8} = 0.44 \pm 0.38$$



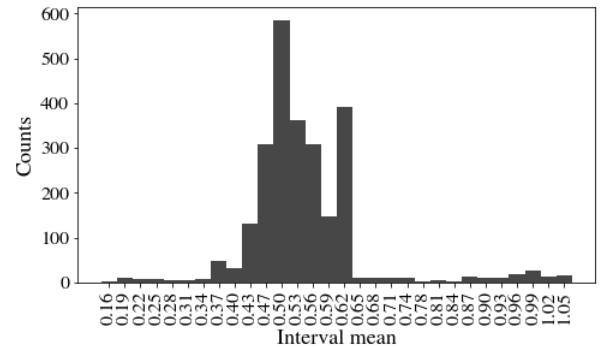
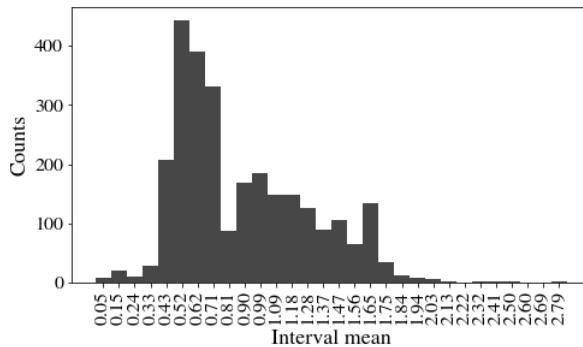
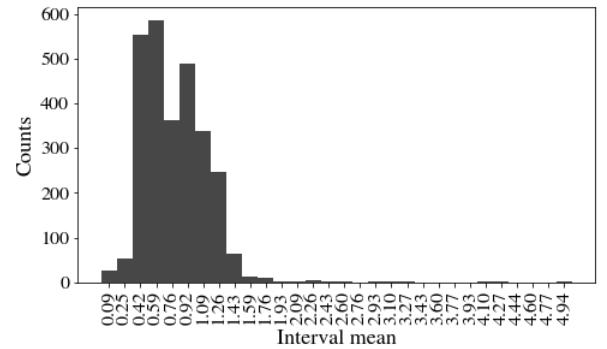
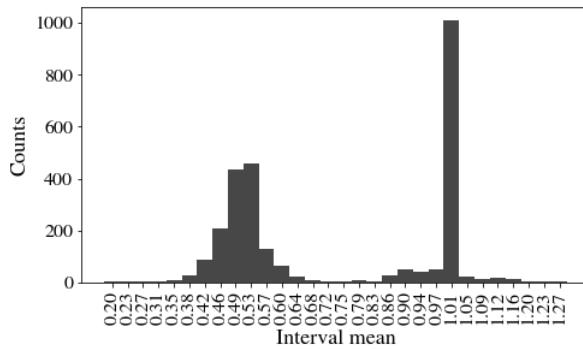
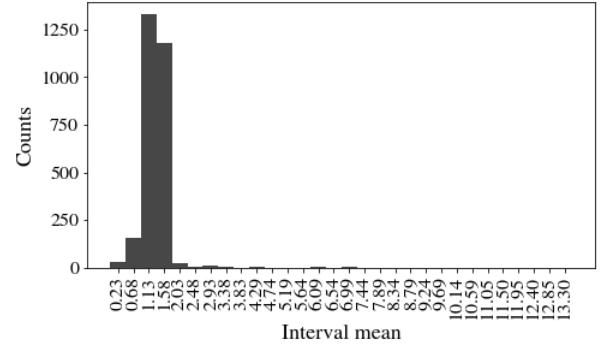
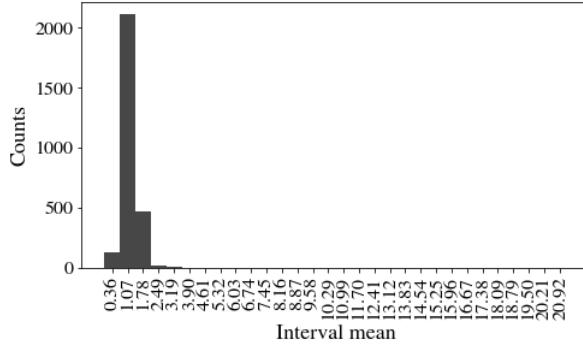
$$x_{368} : \frac{r_4+r_5}{r_6+r_7} = 0.46 \pm 0.75$$

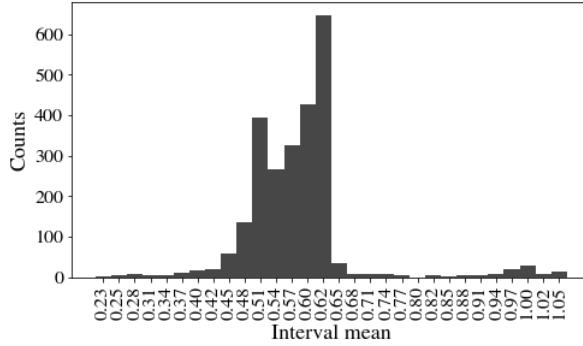


$$x_{369} : \frac{r_4+r_5}{r_6+r_8} = 0.47 \pm 0.46$$

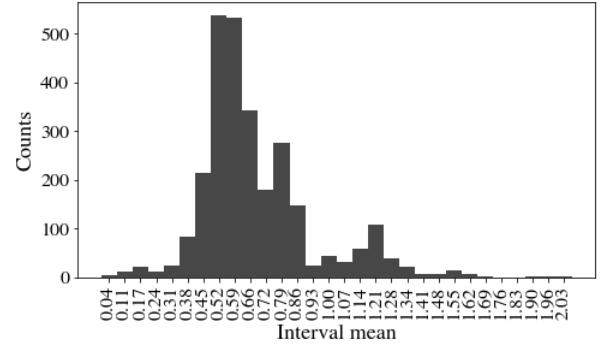


$$x_{370} : \frac{r_4+r_5}{r_7+r_8} = 0.54 \pm 1.17$$

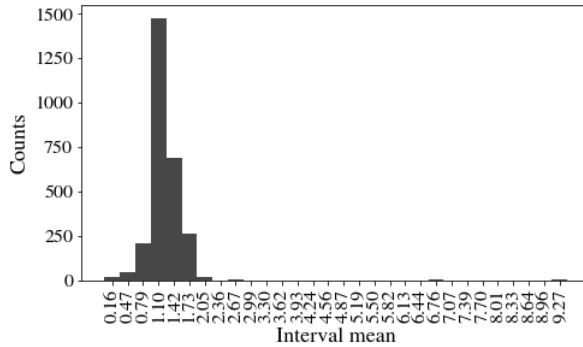




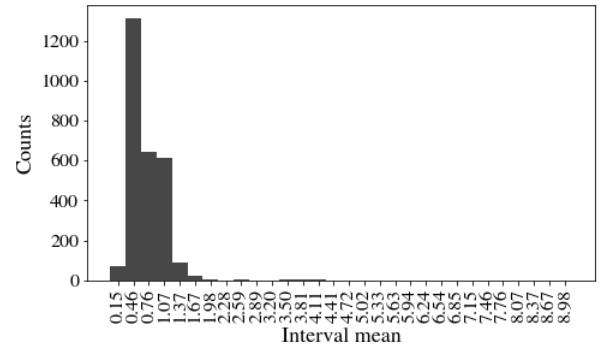
$$x_{377}^* : \frac{r_4+r_6}{r_6+r_8} = 0.64 \pm 0.22$$



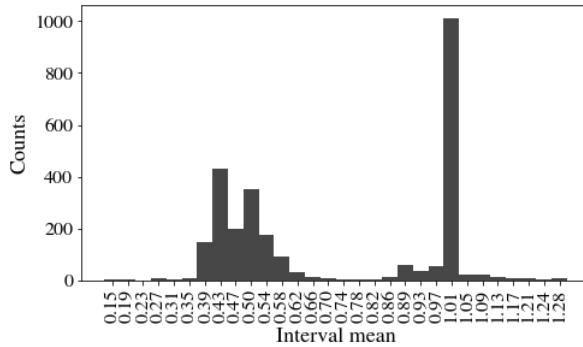
$$x_{378} : \frac{r_4+r_6}{r_7+r_8} = 0.72 \pm 0.71$$



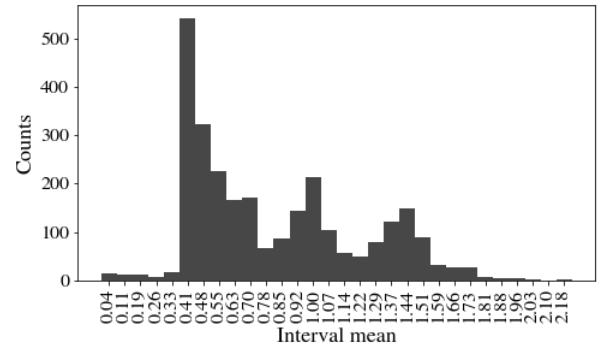
$$x_{379} : \frac{r_4+r_7}{r_4+r_8} = 1.42 \pm 5.31$$



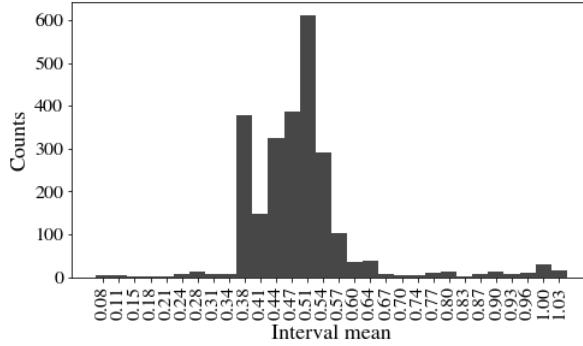
$$x_{380} : \frac{r_4+r_7}{r_5+r_6} = 0.80 \pm 5.16$$



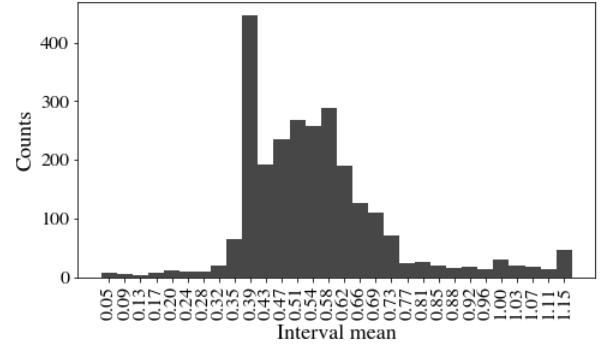
$$x_{381} : \frac{r_4+r_7}{r_5+r_7} = 0.72 \pm 0.30$$



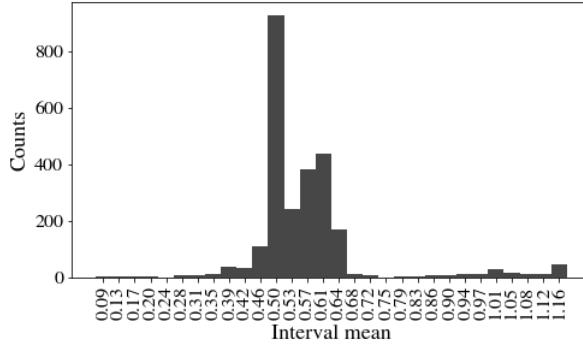
$$x_{382} : \frac{r_4+r_7}{r_5+r_8} = 0.85 \pm 0.68$$



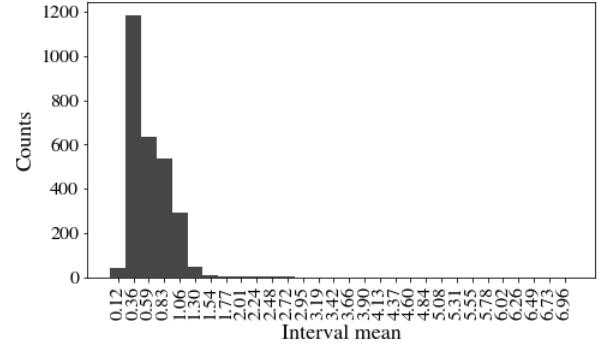
$$x_{383}^* : \frac{r_4+r_7}{r_6+r_7} = 0.55 \pm 0.25$$



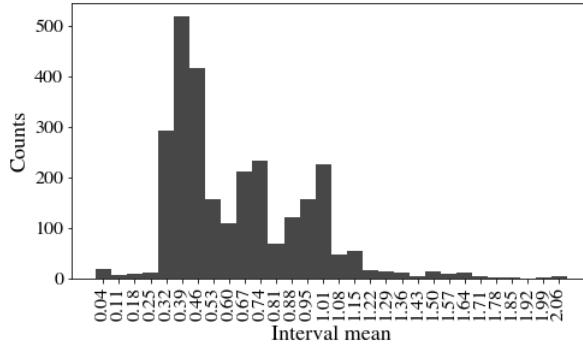
$$x_{384}^* : \frac{r_4+r_7}{r_6+r_7} = 0.60 \pm 0.28$$



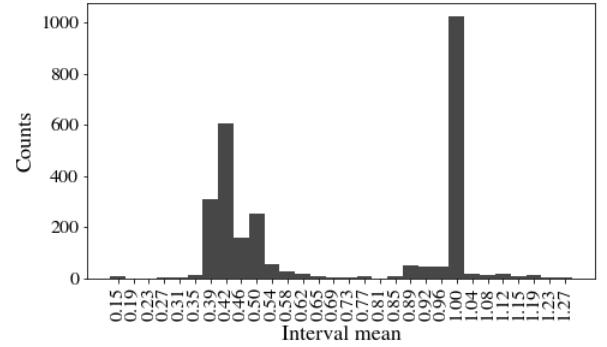
$$x_{385}^* : \frac{r_4+r_7}{r_7+r_8} = 0.62 \pm 0.28$$



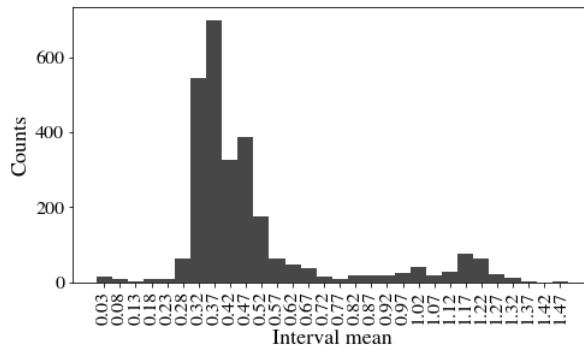
$$x_{386}^* : \frac{r_4+r_8}{r_5+r_6} = 0.70 \pm 4.61$$



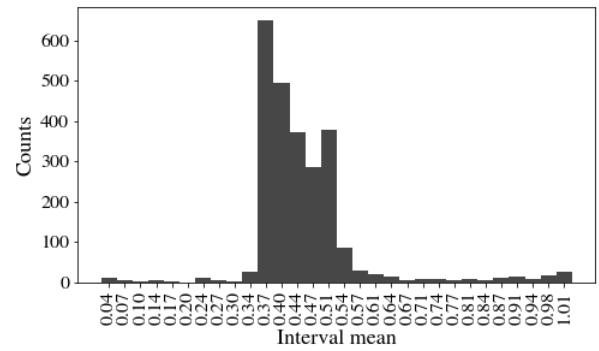
$$x_{387}^* : \frac{r_4+r_8}{r_5+r_7} = 0.67 \pm 0.76$$



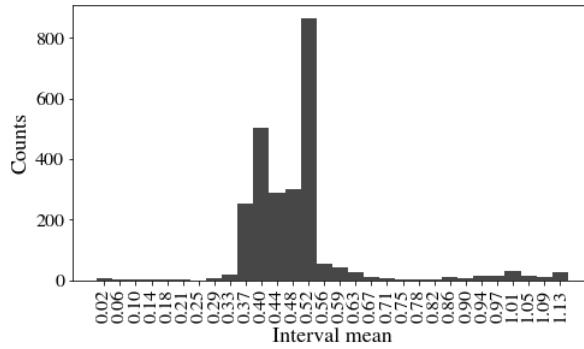
$$x_{388}^* : \frac{r_4+r_8}{r_5+r_8} = 0.70 \pm 0.30$$



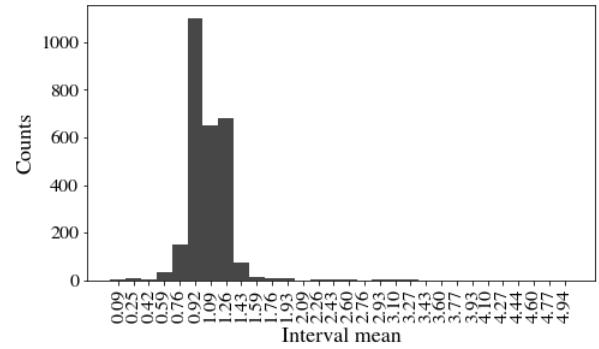
$$x_{389} : \frac{r_4+r_8}{r_6+r_7} = 0.51 \pm 0.52$$



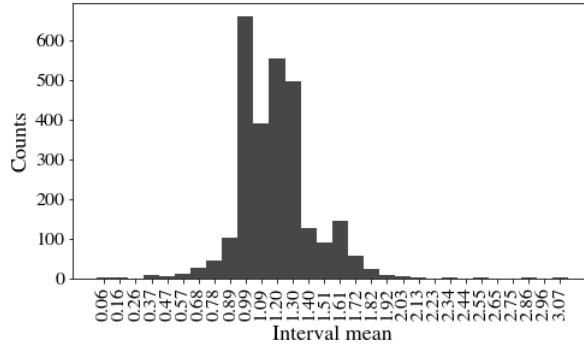
$$x_{390} : \frac{r_4+r_8}{r_6+r_7} = 0.52 \pm 0.25$$



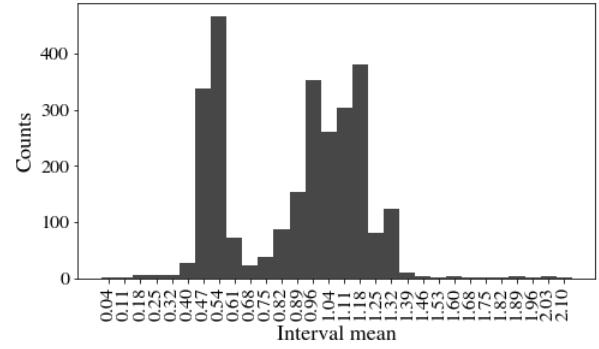
$$x_{391} : \frac{r_4+r_8}{r_7+r_8} = 0.55 \pm 0.30$$



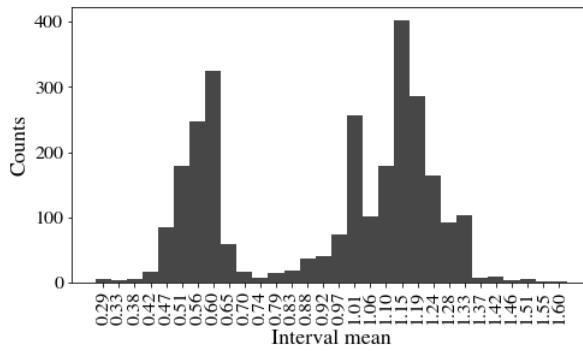
$$x_{392} : \frac{r_5+r_6}{r_5+r_7} = 1.15 \pm 2.21$$



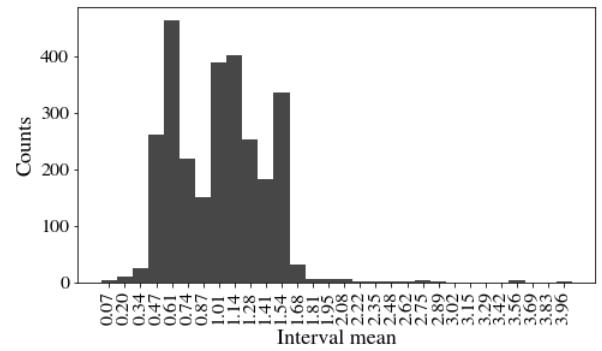
$$x_{393} : \frac{r_5+r_6}{r_5+r_8} = 1.23 \pm 0.97$$



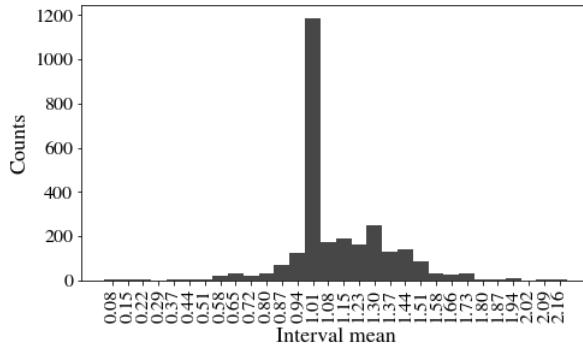
$$x_{394} : \frac{r_5+r_6}{r_6+r_7} = 0.90 \pm 0.69$$



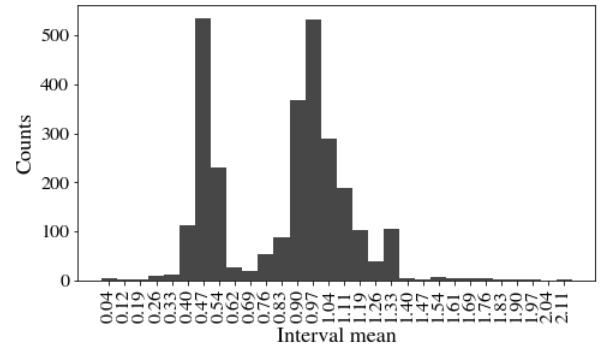
$$x_{395} : \frac{r_5+r_6}{r_6+r_8} = 0.95 \pm 0.34$$



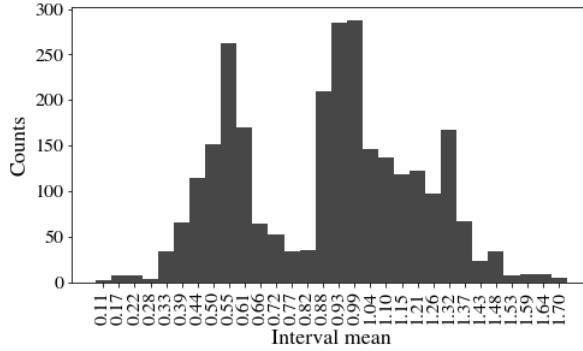
$$x_{396} : \frac{r_5+r_6}{r_7+r_8} = 1.09 \pm 1.66$$



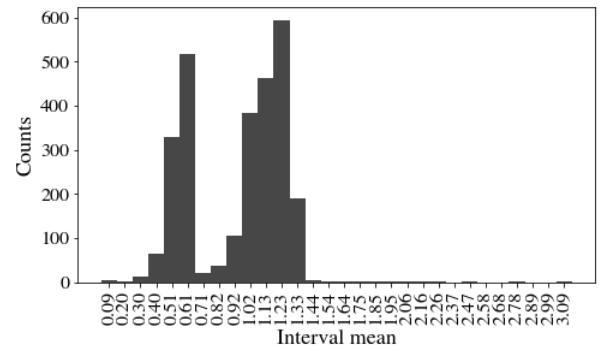
$$x_{397}^* : \frac{r_5+r_7}{r_5+r_8} = 1.15 \pm 0.58$$



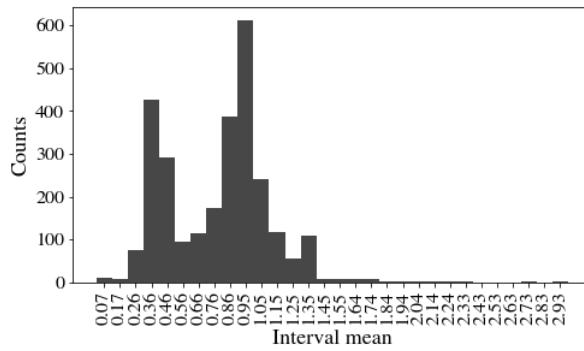
$$x_{398} : \frac{r_5+r_7}{r_6+r_7} = 0.86 \pm 0.68$$



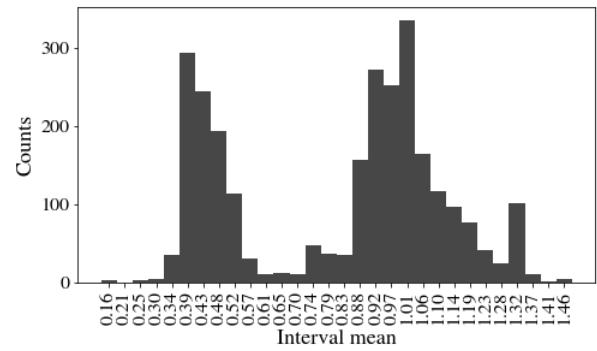
$$x_{399}^* : \frac{r_5+r_7}{r_6+r_8} = 0.91 \pm 0.41$$



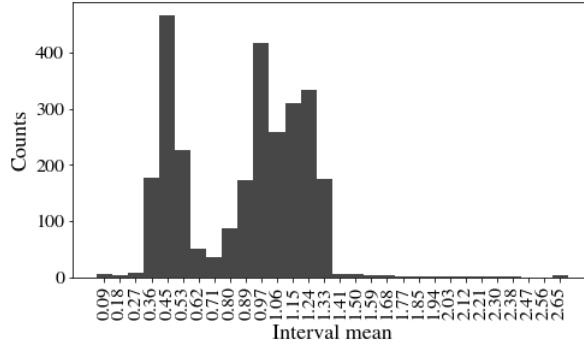
$$x_{400} : \frac{r_5+r_7}{r_7+r_8} = 0.99 \pm 1.08$$



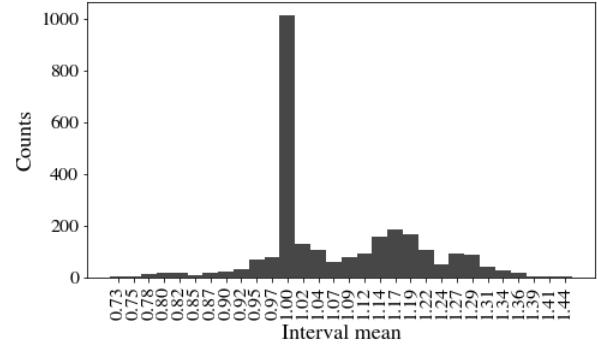
$$x_{401} : \frac{r_5+r_8}{r_6+r_7} = 0.81 \pm 1.11$$



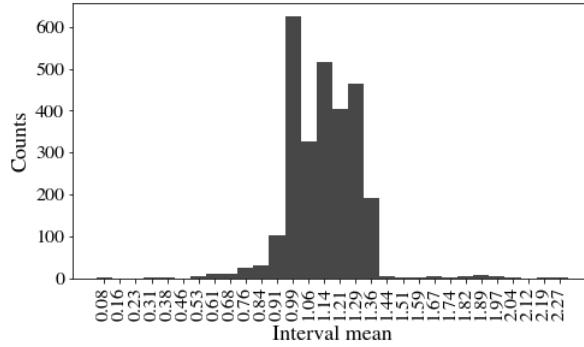
$$x_{402} : \frac{r_5+r_8}{r_6+r_7} = 0.83 \pm 0.35$$



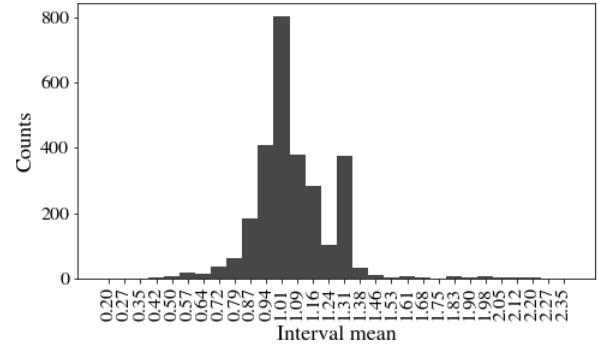
$$x_{403} : \frac{r_5+r_8}{r_7+r_8} = 0.92 \pm 1.09$$



$$x_{404}^* : \frac{r_6+r_7}{r_6+r_8} = 1.08 \pm 0.19$$

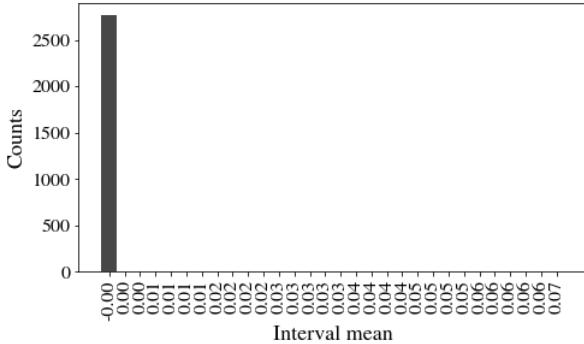


$$x_{405} : \frac{r_6+r_7}{r_7+r_8} = 1.17 \pm 0.64$$

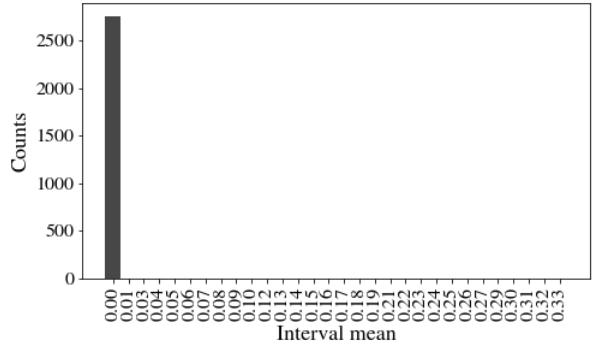


$$x_{406} : \frac{r_6+r_8}{r_7+r_8} = 1.10 \pm 0.65$$

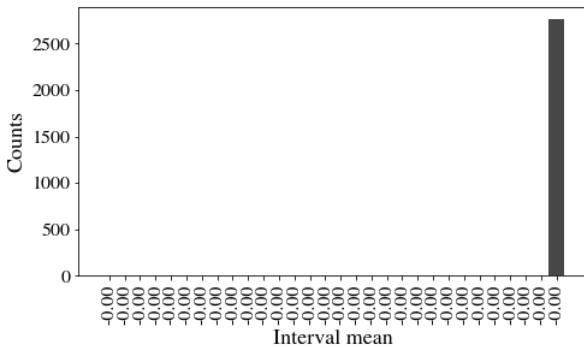
### D.3.3 Funciones de localidad



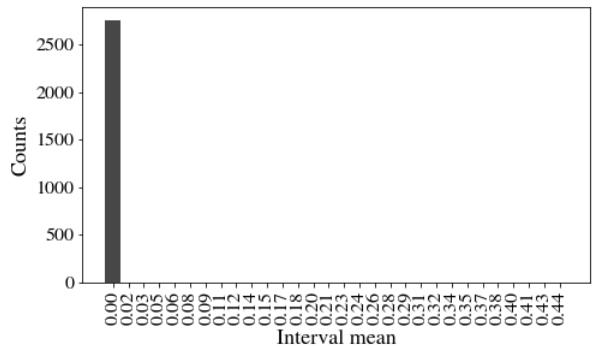
$$x_{407}^* : f_{12} = -0.00 \pm 0.06$$



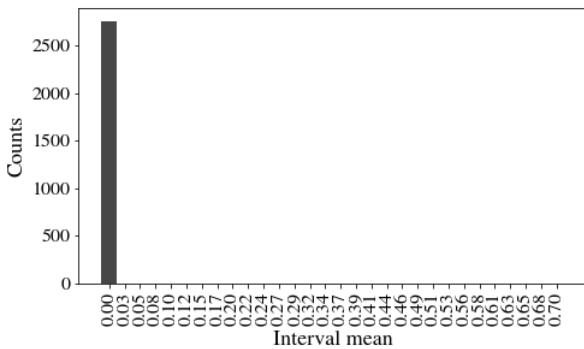
$$x_{408}^* : f_{13} = -0.00 \pm 0.20$$



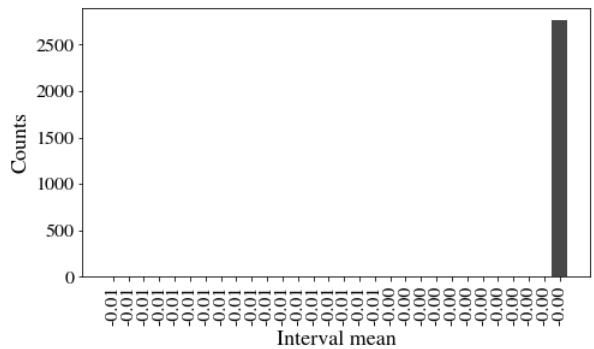
$$x_{409}^* : f_{14} = -0.00 \pm 0.24$$



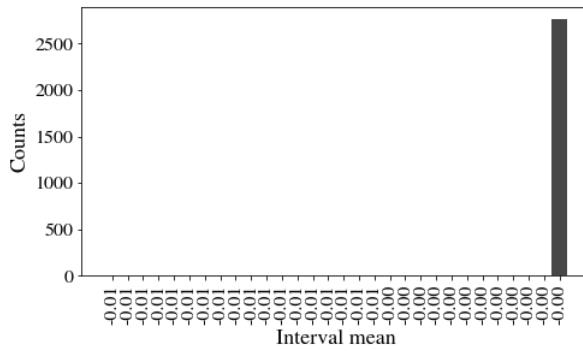
$$x_{410}^* : f_{15} = -0.01 \pm 0.31$$



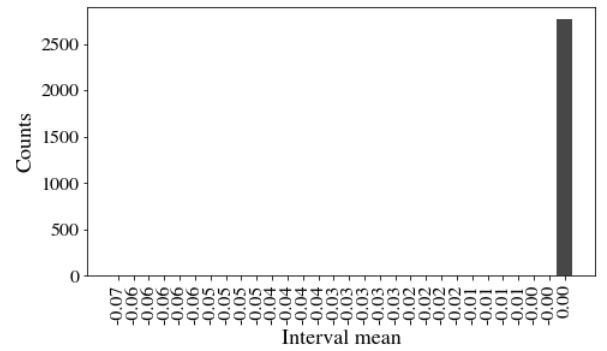
$$x_{411}^* : f_{16} = -0.02 \pm 0.47$$



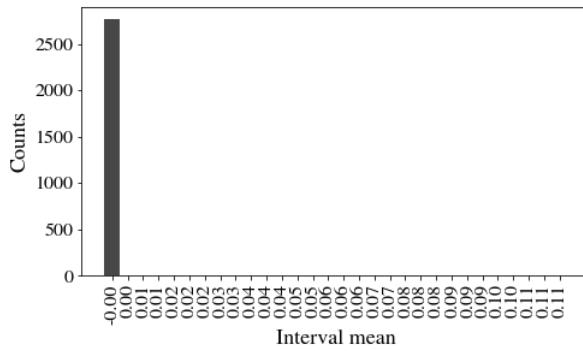
$$x_{412}^* : f_{17} = -0.03 \pm 0.59$$



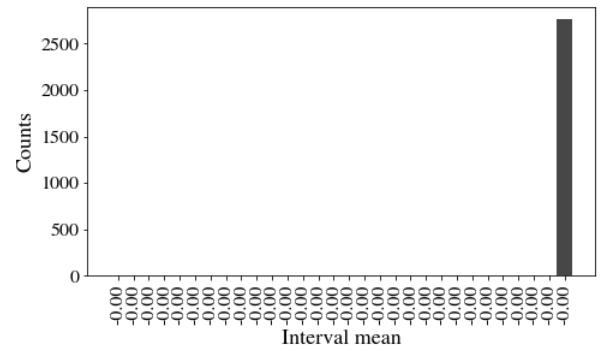
$$x_{413} : f_{18} = -0.03 \pm 0.57$$



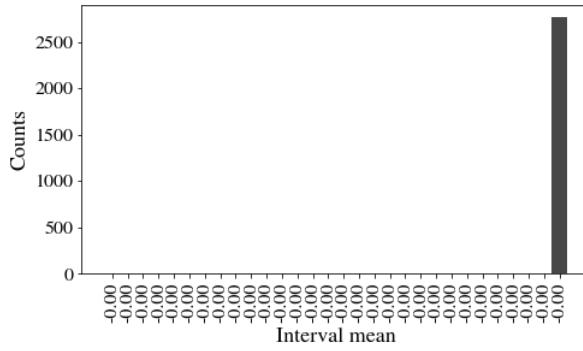
$$x_{414}^* : f_{21} = 0.00 \pm 0.05$$



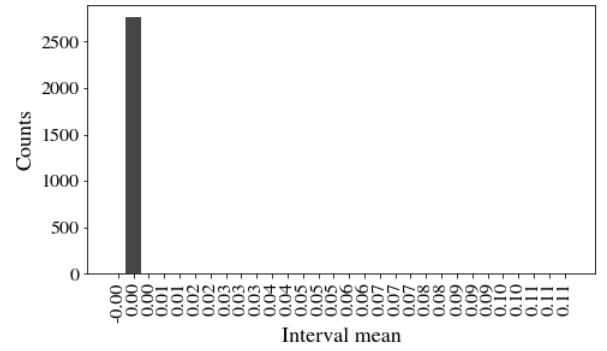
$$x_{415}^* : f_{23} = -0.00 \pm 0.20$$



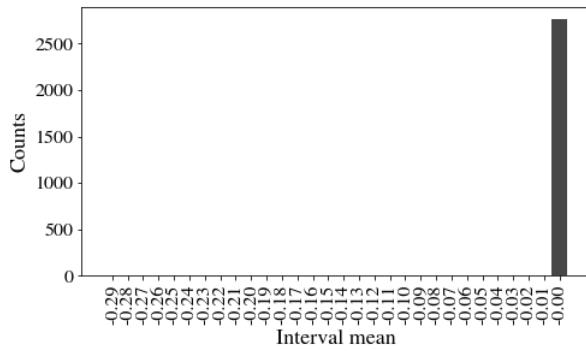
$$x_{416}^* : f_{24} = -0.00 \pm 0.22$$



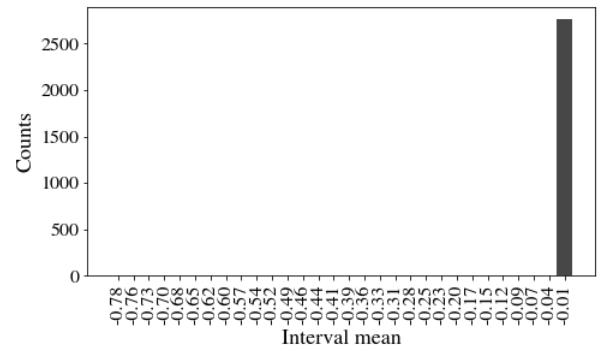
$$x_{417}^* : f_{25} = -0.01 \pm 0.32$$



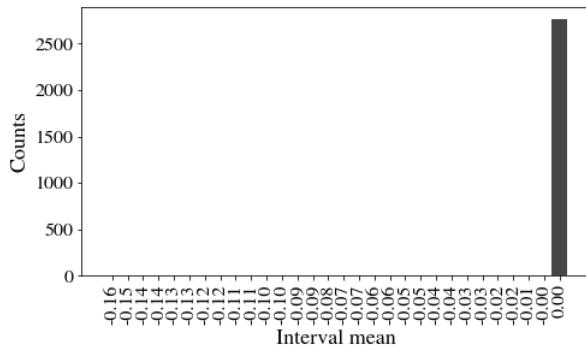
$$x_{418} : f_{26} = -0.02 \pm 0.45$$



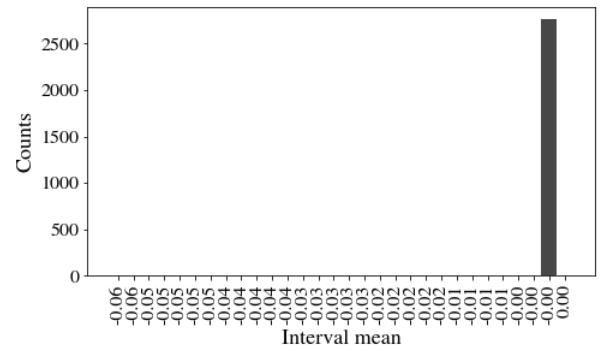
$$x_{419} : f_{27} = -0.03 \pm 0.57$$



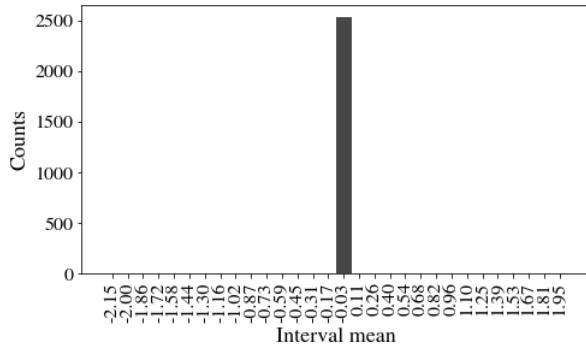
$$x_{420} : f_{28} = -0.03 \pm 0.58$$



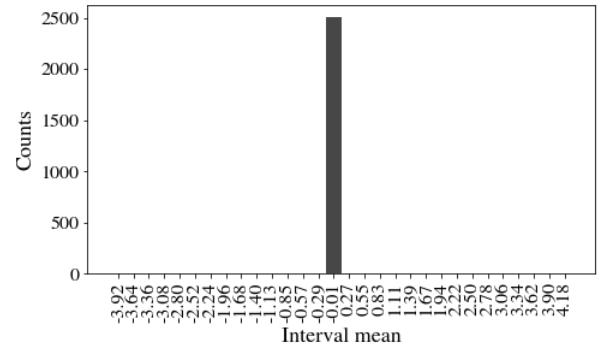
$$x_{421} : f_{31} = 0.00 \pm 0.17$$



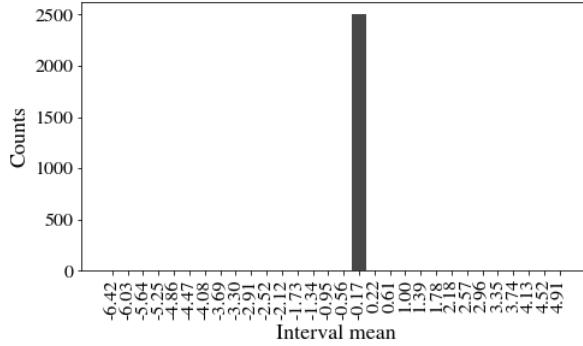
$$x_{422} : f_{32} = 0.00 \pm 0.17$$



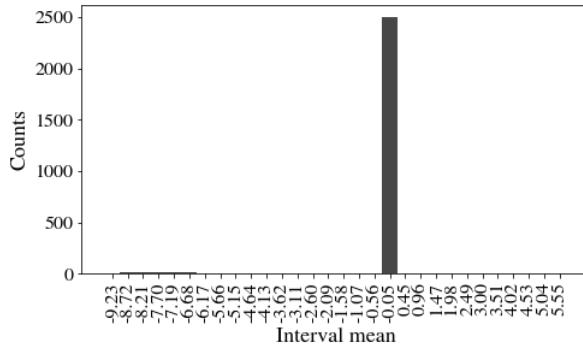
$$x_{423}^* : f_{34} = -0.07 \pm 1.11$$



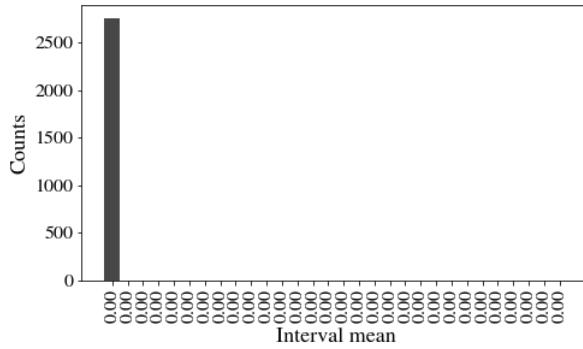
$$x_{424}^* : f_{35} = 0.14 \pm 2.11$$



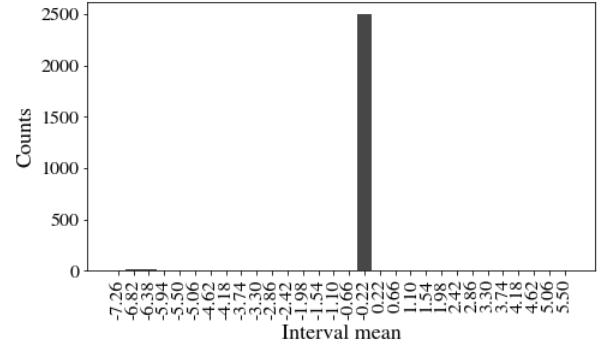
$$x_{425}^*: f_{36} = -0.74 \pm 2.95$$



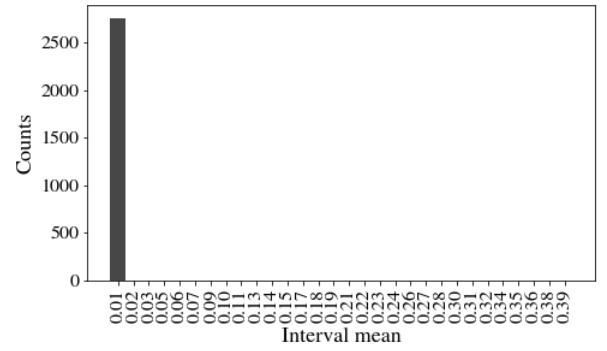
$$x_{427}^*: f_{38} = -1.06 \pm 4.22$$



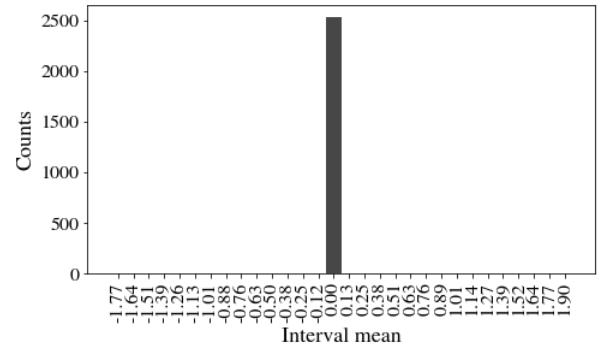
$$x_{429} : f_{42} = 0.00 \pm 0.21$$



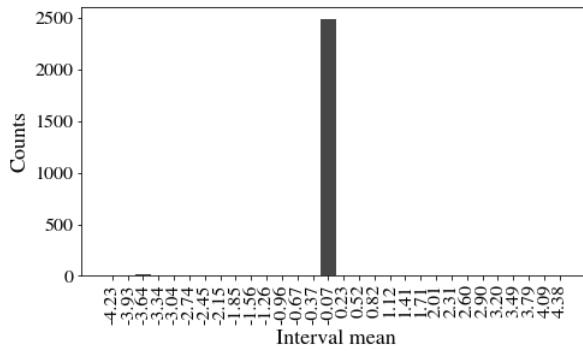
$$x_{426}^*: f_{37} = -0.86 \pm 3.32$$



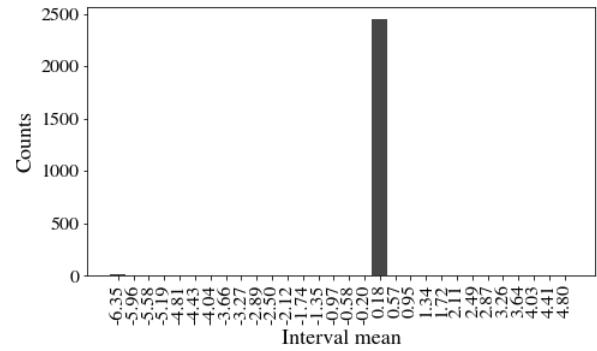
$$x_{428} : f_{41} = 0.00 \pm 0.23$$



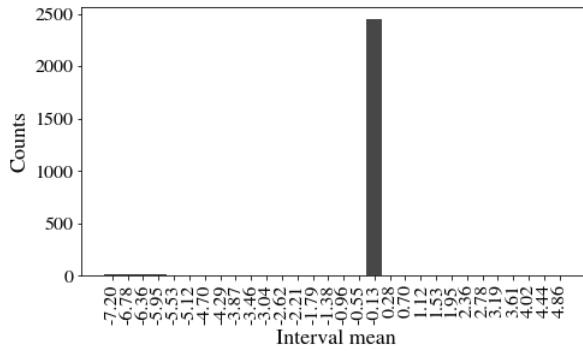
$$x_{430} : f_{43} = 0.06 \pm 0.95$$



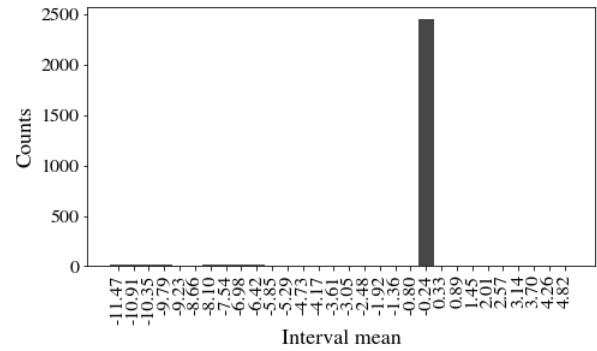
$$x_{431}^* : f_{45} = 0.21 \pm 2.30$$



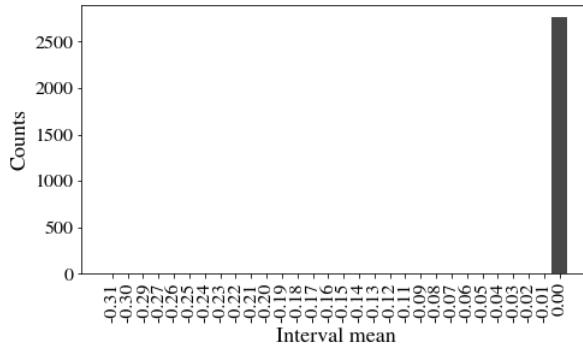
$$x_{432}^* : f_{46} = -0.68 \pm 2.93$$



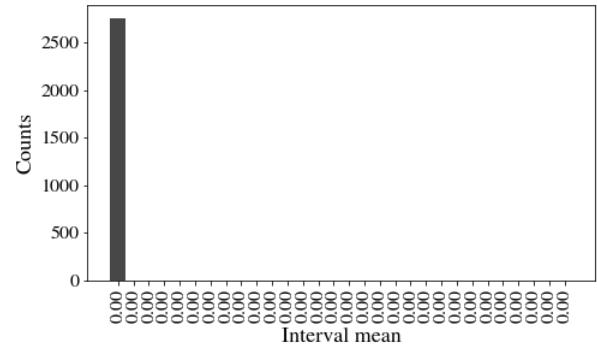
$$x_{433}^* : f_{47} = -0.86 \pm 3.29$$



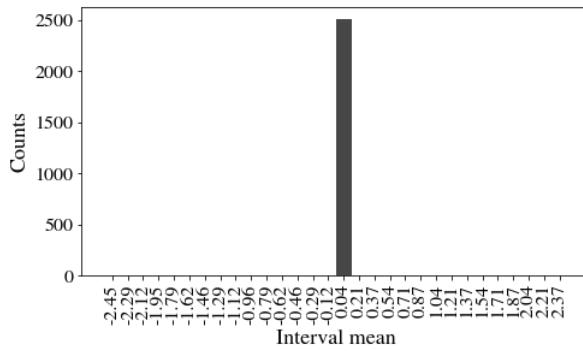
$$x_{434}^* : f_{48} = -1.29 \pm 5.25$$



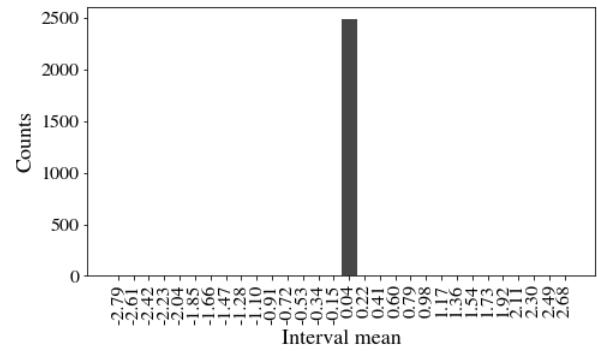
$$x_{435}^* : f_{51} = 0.01 \pm 0.30$$



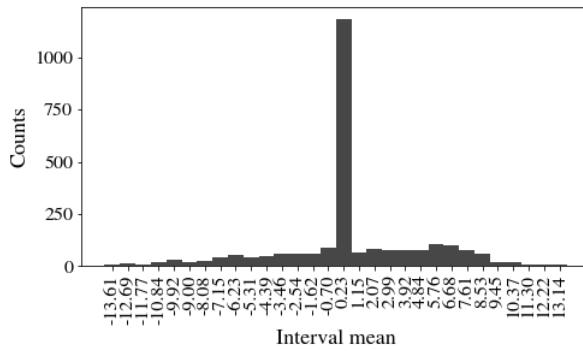
$$x_{436}^* : f_{52} = 0.01 \pm 0.30$$



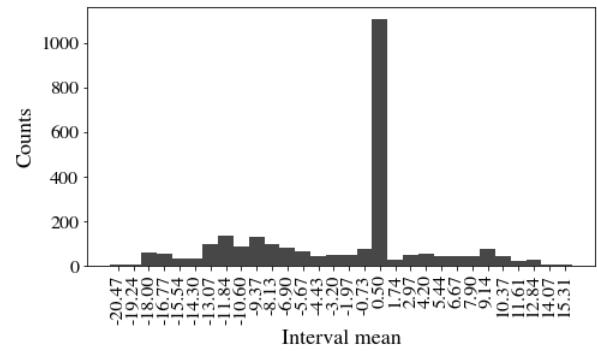
$$x_{437}^* : f_{53} = -0.03 \pm 1.27$$



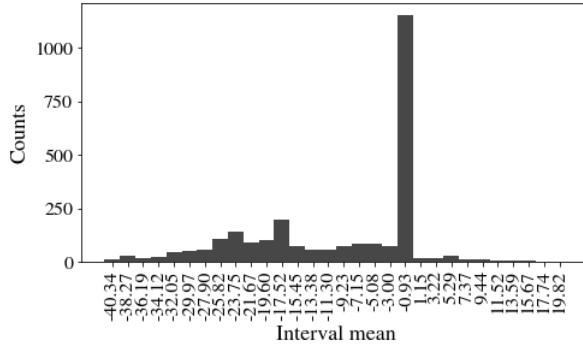
$$x_{438} : f_{54} = -0.06 \pm 1.46$$



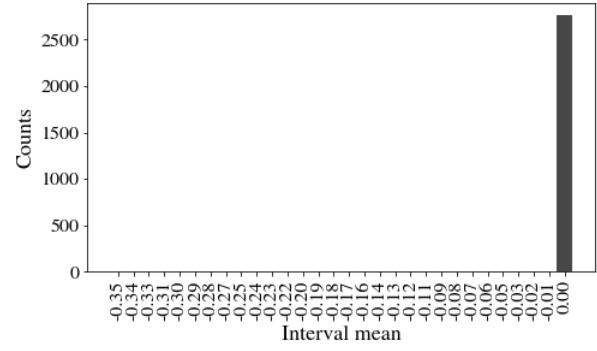
$$x_{439}^* : f_{56} = -0.12 \pm 6.98$$



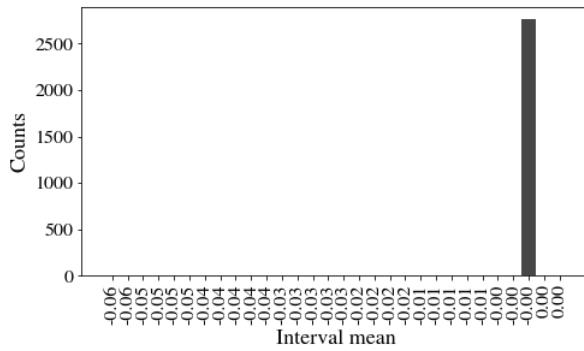
$$x_{440}^* : f_{57} = -2.63 \pm 9.28$$



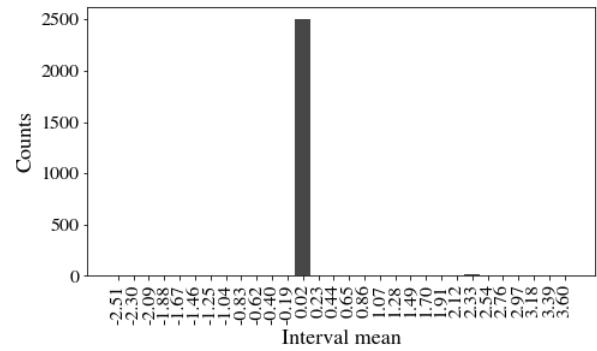
$$x_{441}^* : f_{58} = -10.00 \pm 15.70$$



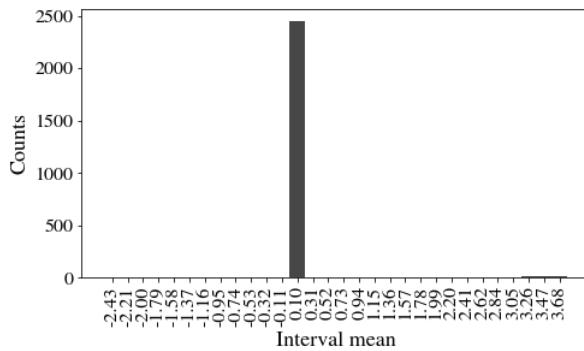
$$x_{442} : f_{61} = 0.01 \pm 0.32$$



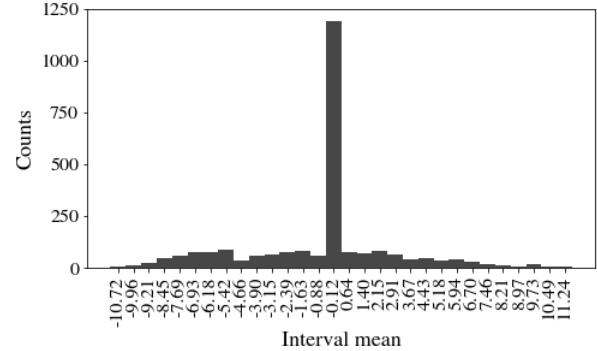
$$x_{443} : f_{62} = 0.01 \pm 0.31$$



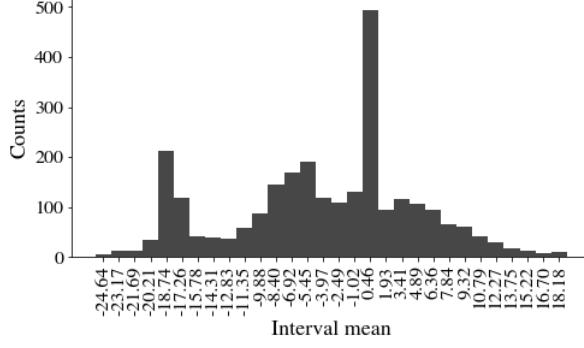
$$x_{444}^* : f_{63} = 0.42 \pm 1.64$$



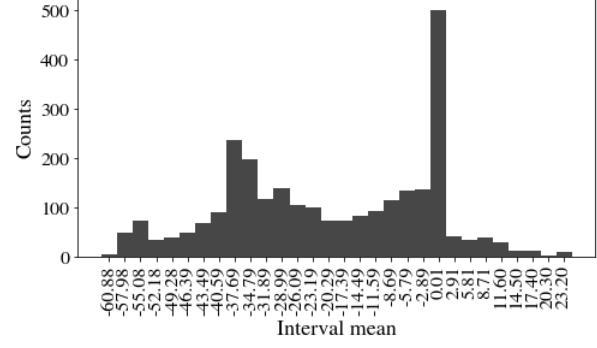
$$x_{445} : f_{64} = 0.41 \pm 1.70$$



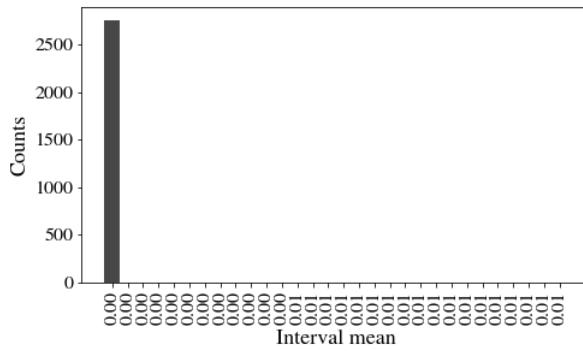
$$x_{446}^* : f_{65} = 0.03 \pm 5.85$$



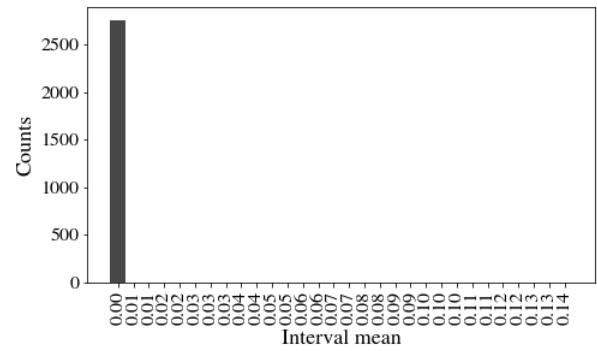
$$x_{447}^* : f_{67} = -3.27 \pm 11.20$$



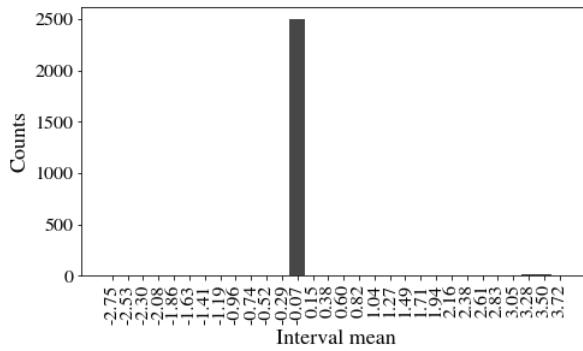
$$x_{448}^* : f_{68} = -19.03 \pm 21.87$$



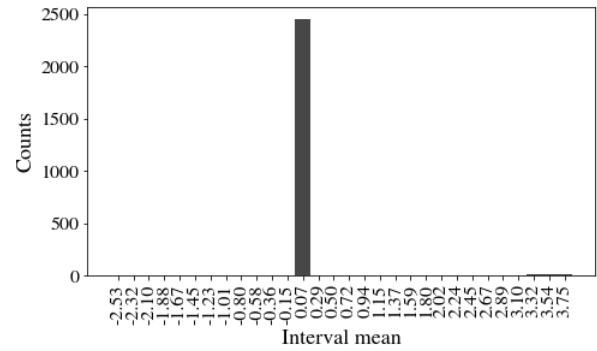
$$x_{449} : f_{71} = 0.02 \pm 0.33$$



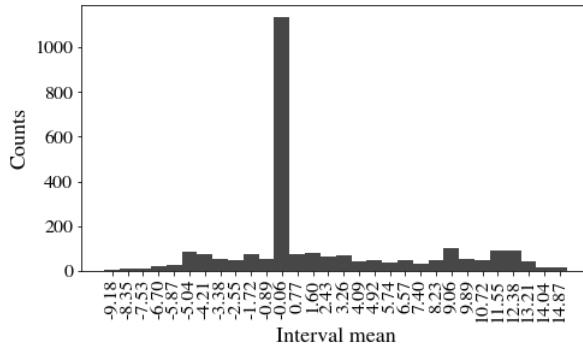
$$x_{450} : f_{72} = 0.02 \pm 0.32$$



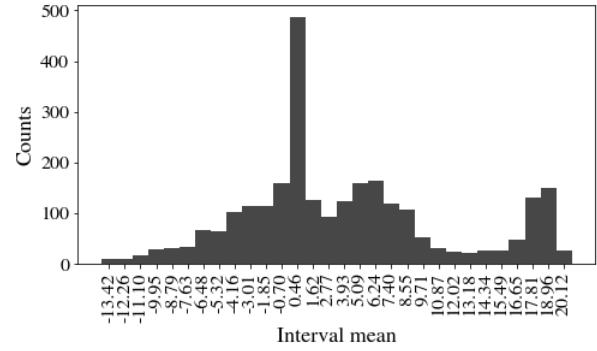
$$x_{451}^* : f_{73} = 0.45 \pm 1.70$$



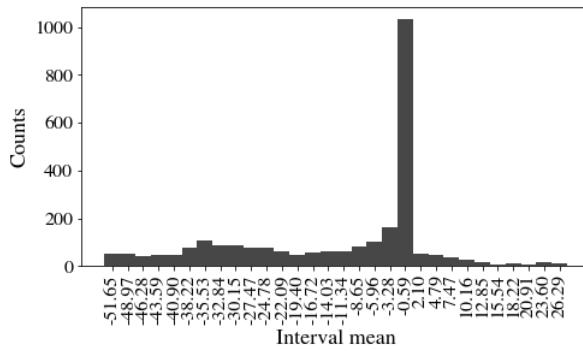
$$x_{452}^* : f_{74} = 0.44 \pm 1.73$$



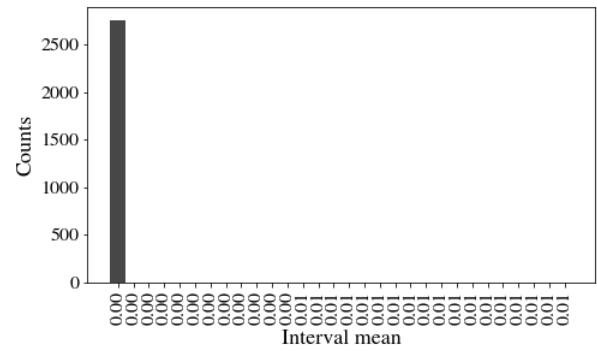
$$x_{453}^* : f_{75} = 2.59 \pm 6.36$$



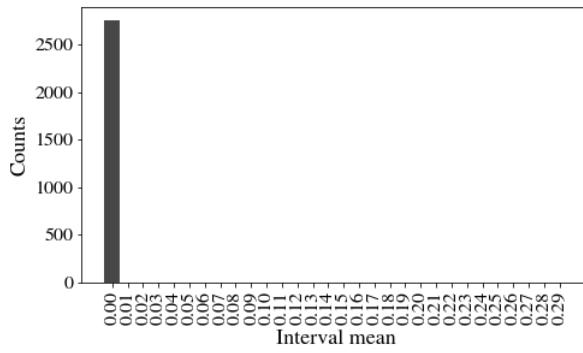
$$x_{454}^* : f_{76} = 3.32 \pm 8.72$$



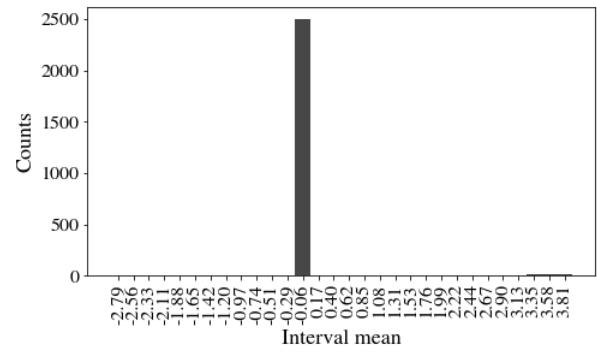
$$x_{455}^* : f_{78} = -12.54 \pm 20.24$$



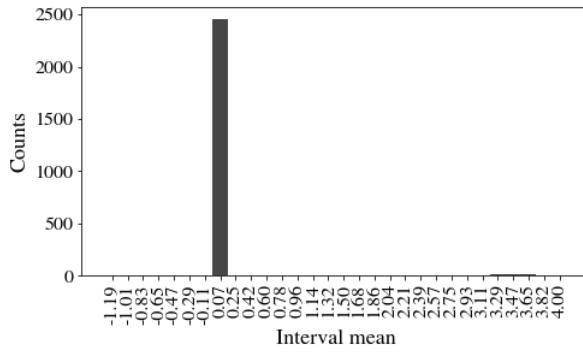
$$x_{456} : f_{81} = 0.02 \pm 0.32$$



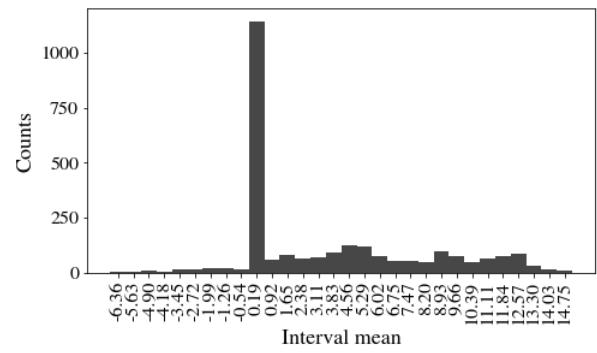
$$x_{457} : f_{82} = 0.02 \pm 0.32$$



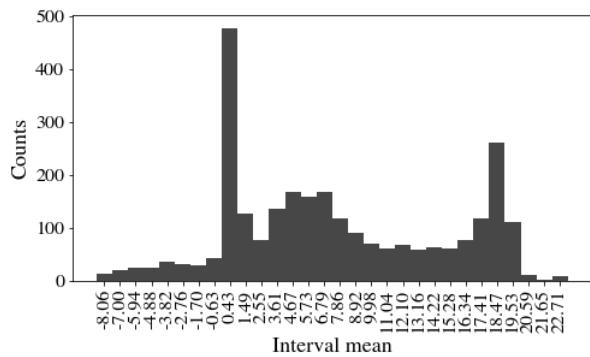
$$x_{458} : f_{83} = 0.48 \pm 1.73$$



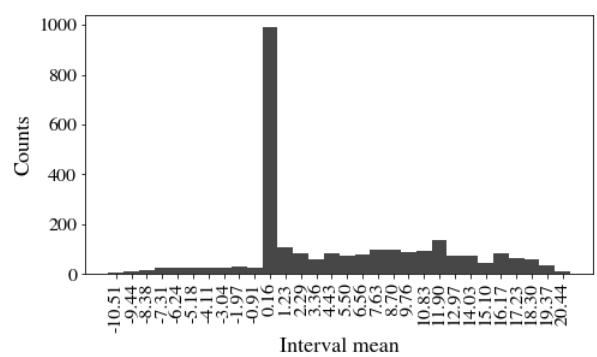
$$x_{459}^* : f_{84} = 0.52 \pm 1.79$$



$$x_{460}^* : f_{85} = 4.03 \pm 5.55$$



$$x_{461}^* : f_{86} = 7.23 \pm 8.02$$



$$x_{462}^* : f_{87} = 5.04 \pm 8.06$$