Global optimizer comparisons Mug rotation $(s_{target} = 0.00)$ 0.020 WSE loss 0.010 0.010 dual annealing (25 function evals) 0.005 basinhopping (22 function evals) differential evolution (171 function evals) 0.000 -2 -3 -1s (rotation) Mug scale $(s_{target} = 0.00)$ 0.20 0.15 O.10 O.10 dual_annealing (27 function evals) 0.05 basinhopping (22 function evals) differential evolution (167 function evals) 0.00 -2 **-**3 -1s (scale) Mug x-translation $(s_{target} = 0.00)$ 0.020 0.015 MSE loss 0.010 dual annealing (29 function evals) 0.005 basinhopping (22 function evals) differential evolution (177 function evals) 0.000

s (x-translation)

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