Monte Carlo Integration with Antithetic Variance Reduction, N = 30 function evaluations antithetic f(x)1.4 MC estimate standard function evaluation at sampled point-counterpoint-pairs indicated by same color 1.2 Histogram over many MC area the MC estimate represents estimated standard deviation 1.0 8.0 >0.6 estimates 0.4 0.2 0.0 0.25 0.75 1.50 0.00 0.50 1.00 1.25 1.75 2.00 0 20

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