

ECE 598OM: Homework 3 - Due beginning of May 2023

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Problem 1 (Analytical): Prove Spencer's 6 standard deviations result in set discrepancy.

Problem 2 (Analytical): Prove that Bose's construction for STSs with $v = 3 \pmod 6$ is indeed valid, using the quasigroup described in class.

Problem 3 (Analytical): Report on the transversal design construction of set-codes with small intersection and small discrepancy.