

TEMPLE

MATH CLUB

New Results in Fixed-Point Theory

WHEN

November 9, 2023

5-6 PM

WHERE

Wachman Hall 617

This week undergraduates Elizabeth Abt-Fraiooli and Christopher Heitmann will present new results in the research of fixed-point theory. Advised by Professor Jeremy Sivek, both have been examining the conditions that yield non-expansive maps without a fixed point. Liz will discuss a new complex-valued variation of Alspach's famous map and will show that it is fixed-point free and non-expansive. Christopher will prove a general theorem regarding fixed-point free and contractive maps and show a new example of fixed-point free and contractive iterate series of a fixed-point free isometry.

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