

Diagram illustrating the composition of an identity operator I and a kernel operator K to produce a function f .

The identity operator I is represented by a square with a diagonal line from the top-left to the bottom-right.

The kernel operator K is represented by a square with a red background, labeled $k(t, s)$. The horizontal axis is labeled s (ranging from 0 to 2π) and the vertical axis is labeled t (ranging from 0 to 2π). A green line segment at the bottom is labeled $k(t, \cdot)$.

The composition is shown as $I + K$, resulting in a vertical line labeled f . The vertical axis is labeled t (ranging from 0 to 2π). A green dot on the line is labeled $f(t)$.

The overall expression is $I + K = f$.