

## **The Invariant Subspace Problem**

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**The invariant subspace problem is the simple question: “ If  $T$  is a bounded linear transformation on a Hilbert space  $H$ , does there exist a non-trivial closed subspace  $M$  of  $H$  invariant under  $T$  ( $T(M) \subset M$ )”. It is the most outstanding problem in operator theory, which has been open for more than half a century. The purpose of this talk is to discuss in brief a history of the various attempts made to solve the problem.**