

The CSI Math Simons Undergraduate Lecture Series

presents a talk by

Prof. Gilbert Strang of MIT

Talk Title

Four Subspaces, Five Factorizations

Abstract:

Every m by n matrix A leads to two orthogonal subspaces of n -dimensional space (the row space and the nullspace of A) and two orthogonal subspaces of m -dimensional space (the row space and the nullspace of A^T). Then the five great factorizations of A create better and better bases for these four subspaces. This is pure linear algebra but it has very valuable applications. The winners are orthonormal bases of v 's and u 's such that each $Av_i = s_i u_i$.



Venue:

Center for the Arts
Building 1P -119

Date:

February 27, 2024 (Tue)

Time:

2:45 -3:45 pm