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**Gilbert Strang\*** (gilstrang@gmail.com), MIT, 2-245, Cambridge, MA 02139. *The Rank of a Circle of 1's in a Matrix.*

The rank and the singular values tell us essential information about compressing a matrix. For a 1-0 matrix with a disk or a triangle full of 1's, we estimate those numbers in joint work with Alex Townsend. (Received September 20, 2016)