1125-15-252 **Stephan Ramon Garcia*** (stephan.garcia@pomona.edu), Department of Mathematics, Pomona College, 610 N College Ave, Claremont, CA 91711. *A tale of two matrices.*

For square A and B, the matrices AB and BA are closely related, yet they are not necessarily similar. We discuss this intriguing relationship and highlight several sufficient conditions that ensure the similarity of AB and BA. (Received August 18, 2016)