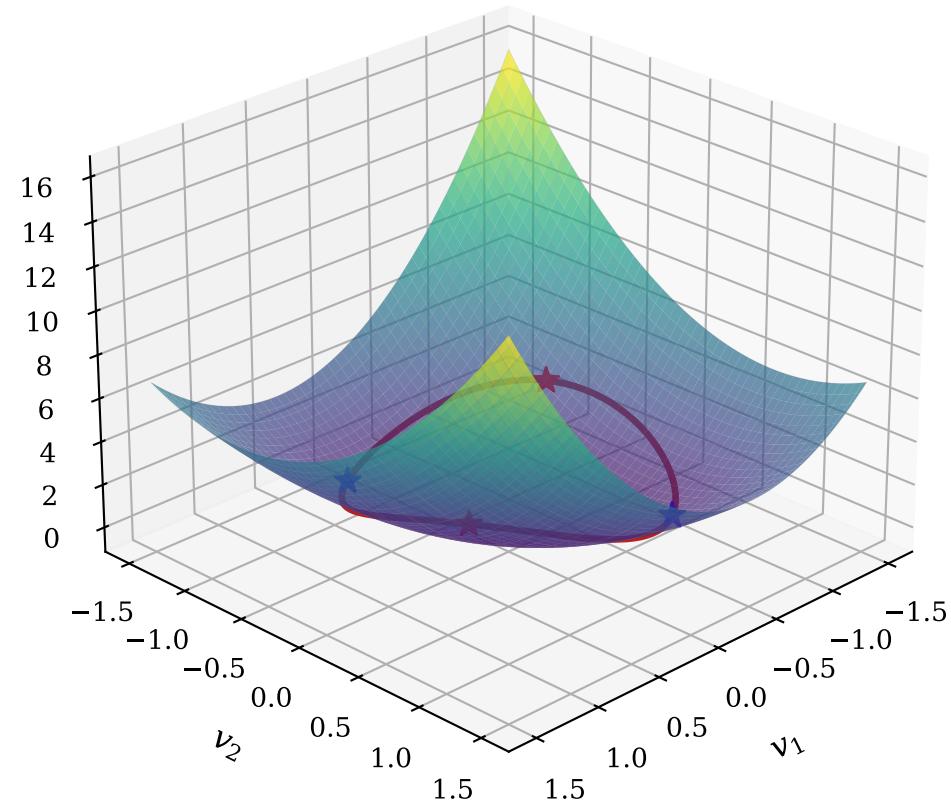


**The Quadratic Form  $v^\top Av$ : Eigenvalues Bound the Values on the Unit Circle  
Maximum occurs along first eigenvector (red  $\square$ ), minimum along second (blue  $\square$ ).**

**(a) Quadratic Form as a Surface**



**(b) Contour View with Eigenvectors**

