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## Continuity of the Conic Hull

In a real Hilbert space V, the conic hull of  $G \subseteq V$  is the set cone (G) consisting of all nonnegative linear combinations of elements of G. Many optimization problems are sensitive to the changes in cone (G) that result from changes in G itself. Motivated by one such problem, we derive necessary and sufficient conditions for the continuity of the conic hull.

Keywords: Cone, conic hull, positive hull, continuity, maximal angle.

**MSC**: 90C31, 90C26, 52B55.