
Multiple sandwich theorem in linear ordered spaces

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On an ordered vector space (E, E_+) we consider non-empty convex cones F_1, \dots, F_n . We give a necessary and sufficient condition such that given $f, g \in E$ there exist $f_i \in F_i$, $i = 1, \dots, n$, with $f < f_1 < \dots < f_n < g$.