

A local-global principle for weak isotropy

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The Bröcker-Prestel theorem characterizes weakly isotropic quadratic forms over a formally real field F as those forms that become isotropic over the real closure of F at every (archimedean) ordering of F and weakly isotropic over the Henselization of F for every real valuation of F .

The goal of this project is to extend the Bröcker-Prestel theorem to hermitian forms over central simple algebras with involution. In the literature one can find partial solutions to this problem, but a complete solution is lacking.