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On Additivity of Traces in Tensor Triangulated Categories

Shahram Biglari

IPM

Iran

We establish a result on the additivity of traces for automorphisms of finite order of distinguished triangles in certain tensor triangulated categories appearing naturally in algebraic geometry and related topics. If time allows, we will discuss our main application of this additivity result in relation to the rationality of certain zeta like functions associated to the motives of algebraic varieties.