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Sankar P Dutta* (dutta@math.uiuc.edu). *On the Edge Homomorphism of a Spectral Sequence*. Preliminary report.

The purpose of this talk is to present a connection between the non-vanishing of a specific edge homomorphism of a spectral sequence originating from the associativity property of Hom and Tensor product and several homological conjectures. Ramifications of this observation will be discussed. Recent advances on Serre's conjecture on Intersection Multiplicity will also be mentioned if time permits. (Received July 20, 2014)