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It is a standard tool of spectral sequences to use product structures as an aid in calculations. What makes this possible is that it is well-understood when a spectral sequence is compatible with the algebraic structure present – when a product structure on an  $E_2$  page of a spectral sequence will result in a product on the  $E_\infty$  page.

We extend this to more general types of operations. Such operations are often described using the language of operads - structures which encode a set of operations and their composition laws. In this talk, we present conditions under which an action of an operad on the  $E_2$  page of a spectral sequence passes to the  $E_\infty$  page. These conditions generalize the conditions for algebras, and cover several classes of interesting examples. (Received August 07, 2008)