

1077-55-1731 **Martin Frankland*** (franklan@illinois.edu), UIUC, Department of Mathematics, 1409 W. Green St, Urbana, IL 61801. *Non-realizable 2-stage Π -algebras.*

It is a classic fact that Eilenberg-MacLane spaces exist and are unique up to weak equivalence. However, one cannot always find a space with two non-zero homotopy groups and prescribed primary homotopy operations. Using work of Baues and Goerss, we will present examples of non-realizable 2-stage Π -algebras, focusing on the stable range. (Received September 20, 2011)