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Abstracts of Short Communications and Posters

Section:

6. Topology

1991 MS Classification: 55
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BP cohomology theory and v_n-series
We introduce BP topology which is the most natural topology on Brown-Peterson (BP) cohomology groups: it is always Hausdorff for any space, and relations expressed as convergent infinite sums can be studied.
In BP theory, the p-series has played an important role. We introduce its generalization, v_n-series for all $n \geq 0$, as certain elements in BP cohomology of Ω-spectrum of BP theory. These v_n-series measure *noncommutative* nature of the splittings of the Ω-spectrum in critical degrees. We will also discuss applications of v_n-series to the structure of BP cohomology theory.