



## On the double transfer and the f-invariant

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Résumé en anglais

The purpose of this paper is to investigate the algebraic double  $S^1$ -transfer, in particular the classes in the two-line of the Adams-Novikov spectral sequence which are the image of comodule primitives of the MU-homology of  $\mathbb{C}P^\infty \times \mathbb{C}P^\infty$  via the algebraic double transfer. These classes are analysed by two related approaches: the first,  $p$ -locally for  $p \geq 3$ , by using the morphism induced in MU-homology by the chromatic factorisation of the double transfer map together with the  $f$ -invariant of Behrens (for  $p \geq 5$ ) (M. Behrens, Congruences between modular forms given by the divided  $\beta$ -family in homotopy theory, *Geom. Topol.* 13(1) (2009), 319–357). The second approach (after inverting 6) uses the algebraic double transfer and the  $f$ -invariant of Laures (G. Laures, The topological  $q$ -expansion principle, *Topology* 38(2) (1999), 387–425).

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