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Leibniz
Universität
Hannover

Oberseminar zur Algebra und Algebraischen Kombinatorik

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"The monoidal structure of strict polynomial functors"

The category of strict polynomial functors inherits an internal tensor product from the category of divided powers. This monoidal structure also yields a tensor product for the category of modules over the Schur algebra $S_k(n;d)$, indeed the two categories are equivalent for $n > d$.

To investigate this monoidal structure, we consider the category of modules over the symmetric group algebra kS_d which admits a tensor product coming from its Hopf algebra structure. Based on work by Schur, there exists a functor F going from the category of strict polynomial functors to the category of modules over the symmetric group. We show that the functor F is monoidal.

This is joint work with Rebecca Reischuk.

Montag, 19.01.2015
ab 14:15 Uhr, Raum a410
Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

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