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Strong homotopy morphisms via twisting cochains.

As with the classical twisting cochains of Brown, twisting cochains have been defined from co-operads to operads, permitting the construction of “twisted composition products” and hence “standard constructions”. The bar resolution for operads, and the Koszul resolution for quadratic operads, are two examples.

We will show how the standard construction associated to any twisting cochain supports a co-ring structure, and investigate the resulting morphisms that this co-ring defines.

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