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Title: Twisted dendriform algebras and the pre-Lie Magnus expansion Authors: Kurusch <u>Ebrahimi-Fard</u>, Dominique <u>Manchon</u> Categories: math.CO <u>Combinatorics</u> (math.QA <u>Quantum Algebra</u>) Comments: improved version MSC: 16W30; 05C05; 16W25; 17D25; 37C10; 81T15.

Abstract: In this paper an application of the recently introduced pre-Lie Magnus expansion to Jackson's q-integral and q-exponentials is presented. Twisted dendriform algebras, which are the natural algebraic framework for Jackson's q-analogues, are introduced for that purpose. It is shown how the pre-Lie Magnus expansion is used to solve linear q-differential equations. We also briefly outline the theory of linear equations in twisted dendriform algebras.

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How much of the theory of associators can be recovered/predicted from the existence of a quasi-homomorphic expansion for the tower of braid groups?

I can no longer harn new Things; at bust I can aim to Fit new things into my existing world-view.

In w-world, is there a "thick tube" opposite to "Thin tube"= "ID paths" 2