Shuffle algebras and their integral forms: type B_n and G_2

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We construct a family of PBW type bases for the positive subalgebras of quantum loop algebras of type B_n and G_2, as well as their Lusztig and RTT (for type B_n only) integral forms, in the new Drinfeld realization. We also establish a shuffle algebra realization of these $C(v)$-algebras and generalize the latter to the above $Z[v,v^{-1}]$-forms. This is a joint work with A. Tsymbaliuk.

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