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## The stabilizer Lie algebra of the harmonic coproduct

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For a finite abelian group  $G$ , Racinet constructed a Lie algebra  $\mathfrak{dmt}_0^G$ , which for  $G = \mu_N$  describes double shuffle and regularisation relations between multiple polylogarithm values specialized to  $N^{th}$  roots of unity. Enriquez and Furusho then identified this Lie algebra with the stabilizer Lie algebra  $\mathfrak{stab}(\Delta^M)$  of a coalgebra  $(M, \Delta^M)$  appearing in Racinet's formalism. On the other hand, Racinet's formalism provides a Hopf algebra (

**Presenter:** YADDADEN, Khalef (Strasbourg)