Multiple Polylogarithms over Tate Algebras

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Multiple Zeta values and multiple polylogarithms have been studied recently due to its occurrence in different fields of mathematics such as knot theory and mathematical physics. In 2004, Thakur introduced multiple zeta values on function fields and in 2014 Chang discovered the relation between multiple polylogarithms and multiple zeta values in this content. Recently Pellarin introduced multiple zeta values over Tate algebras and moreover he proved a sum-shuffle formula among them. In this talk we introduce multiple polylogarithms over Tate algebras and relate them to multiple zeta values defined by Pellarin. This is a joint work with Federico Pellarin.