Iterated beta integrals

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Abstract

The Iterated beta integrals are a common generalization of the hyperlogarithms and beta integrals introduced by Hirose and myself in our previous work on a generalization of Zagier's formula on multiple zeta values. They satisfy a certain invariance property which gives rise to various new hyperlogarithm identities. In my talk, I would like to give a brief introduction to the iterated beta integrals and the applications and discuss further interesting properties we found in our subsequent studies.