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Non-geometric fluxes and non-associativity in M-theory

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In this talk we discuss non-geometric fluxes in M-theory using exceptional field theory. We will point out that there is a new set of non-geometric fluxes in the R-R sector in the perturbative limit. We show that there are missing momenta conditions, induced by the fluxes. Finally the non-geometric fluxes together with the missing momenta lead to a non-associative phase space, which is related to the non-associative algebra of the octonions.

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