## **Integrability of Massive Feynman Diagrams**

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Much of the calculational progress in  $\mathcal{N} = 4$  Super-Yang-Mills theory has been due to its integrability in the planar limit, which presents itself in form of an infinite-dimensional symmetry of Yangian-type. Recently it has been found that certain classes of ubiquituous massive Feynman diagrams feature a similar dual-conformal Yangian symmetry. I report on this progress and show how this powerful newly-found non-local symmetry can be used to completely constrain the functional dependence of Feynman integrals. Translating the level-one Yangian generators from dual to original momentum space, I introduce a massive generalization of momentum space conformal symmetry. Finally I demonstrate how the Yangian symmetry is realized on off-shell amplitudes of a massive generalization of the so-called Fishnet theory and how this theory emerges in a doubly-scaled Gamma-deformation from  $\mathcal{N} = 4$  Super-Yang-Mills theory on the Coulomb branch.

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