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Plabic Graphs and Symbol Alphabets in $\mathcal{N} = 4$ super-Yang-Mills Theory

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A key challenge in the study of scattering amplitudes of $\mathcal{N} = 4$ super-Yang-Mills theory is to understand their analytic structure. Symbols, a central tool in this topic, are known to contain particular cluster coordinates of $Gr(4, n)$ together with certain algebraic functions of cluster coordinates. In my talk, I will present an algorithm for computing symbol alphabets by solving matrix equations of the form $C \cdot Z = 0$ to relate parameterizations of certain $Gr(k, n)$ plabic graphs to functions on $Gr(m, n)$.

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