A DECORATED TREE APPROACH TO RANDOM PERMUTATIONS IN SUBSTITUTION-CLOSED CLASSES

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We establish a bijective encoding that represents permutations as forests of enriched trees. This allows us to prove local convergence of uniform random permutations from substitution-closed classes satisfying a criticality constraint. It also enables us to reprove and strengthen permuton limits for these classes in a different way, that uses a semi-local version of Aldous' skeleton decomposition for size-constrained Galton–Watson trees. This is joint work with M. Bouvel, V. Féray, and J. Borga