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The allelic partition of Lambda-coalescents

I will discuss some recent progress on the structure of the allelic partition associated with a Lambda-coalescent in the infinite alleles model. In particular, in the case where the measure Lambda has a density which decreases as a power law near 0, we obtain a strong law of large numbers for the allele frequency spectrum. The proof is essentially based on martingale arguments and a Tauberian theory of random partitions developed by Gneden, Hansen and Pitman.

Joint work with Julien Berestycki and Vlada Limic.