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Clique factors in randomly perturbed graphs

We study the model of randomly perturbed dense graphs, which is the union of any n -vertex graph G_α with minimum degree αn and the binomial random graph $G(n, p)$. In this talk, we shall examine the following central question in this area: to determine when $G_\alpha \cup G(n, p)$ contains clique factors, i.e. spanning subgraphs consisting of vertex disjoint copies of the complete graph K_k . We offer several new sharp and stability results. This is joint work with Julia Böttcher, Olaf Parczyk, and Jozef Skokan.