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A nested occupancy scheme in random environment is a generalization of the Karlin infinite balls-in-boxes occupancy scheme in random environment (with random probabilities). Unlike the Karlin scheme in which the collection of boxes is unique, there is a nested hierarchy of boxes, and the hitting probabilities of boxes are defined in terms of iterated fragmentation of a unit mass. We say that the boxes belong to the j -th level provided that their hitting probabilities are given by the j -fold fragmentation. Assuming that the number of balls is n , we shall present functional limit theorems for the number of occupied boxes in the j -th level in two different settings: 1) j is fixed; 2) $j=j(n)$ diverges to infinity and $j(n)=o((\log n)^{1/2})$ as n tends to infinity.

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