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Completing Large t-$(v, t+1, 1)$ Packings

At CMS this past summer, I gave a brief tour of various kinds of 'completion' phenomena for various kinds of (partial) combinatorial design, including a question whether t-$(v, t+1, 1)$ packings with sufficiently many blocks could be completed to a design. Here we give a sharp answer to this question by studying the leaves of such packings, and give an application to bounding packing numbers. We also present an interesting structural consequence of this result.