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GDDs with two groups and block size 6 with fixed block configuration

A $GDD(n, 2, k; \lambda_1, \lambda_2)$ has fixed block configuration (s, t) if each block has exactly s points from one group and $k - s = t$ points from the other. We give new results on the existence of $GDD(n, 2, 6; \lambda_1, \lambda_2)$s with fixed block configurations $(3, 3)$, $(4, 2)$ and $(5, 1)$. (Joint work with Melanie Laffin.)