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Cycle Extensions in PBD Block-Intersection Graphs

A cycle C in a graph is said to be extendable if the graph also has a cycle C' that contains each vertex of C plus one more vertex. A graph G is said to be cycle extendable if every non-Hamiltonian cycle of G is extendable. New results concerning cycle extensions in block-intersection graphs of pairwise balanced designs will be discussed. This is joint work with Robert Luther.