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GROUP DIVISIBLE DESIGN WITH TWO GROUPS AND BLOCK SIZE FIVE

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Abstract of Talk: The necessary conditions for the existence of Group Divisible Designs with two groups and block size five are given and in certain cases it is shown that they are sufficient. We say a GDD with two groups is even, odd or mixed if the size of the non-empty intersections of any of its blocks with any of the two groups is always even, always odd or always mixed. We also present new constructions and results about families of GDDs with two groups and block size five.