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PAIRWISE BALANCED DESIGNS OF BLOCK SIZES THREE AND FIVE

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Abstract of Talk: The work of Colbourn, Rosa and Stinson considered PBDs with block sizes three and four, and described all designs which can be constructed with a given number of blocks of size four. We consider designs of the form $\text{PBD}(v, \{3,5\}, 1)$, specifically concentrating on the minimal case and a partial solution to the maximal case.