

## Sequenceable partial Steiner triple systems

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A partial Steiner triple system of order  $n$  denoted by  $\text{PSTS}(n)$  is a collection of edge-disjoint triangles contained in  $K_n$ . The triangles used are called the blocks of the  $\text{PSTS}(n)$ . A subset  $S$  of  $3k$  vertices is block-decomposable, if there are  $k$  vertex-disjoint blocks in the  $\text{PSTS}(n)$  whose union is  $S$ . A  $\text{PSTS}(n)$  is sequenceable, if the points can be sequenced so that no proper subset of consecutive points in the sequence is block-decomposable, In this talk I discuss when a  $\text{PSTS}(n)$  is sequenceable. (Joint work with Brian Alspach and Adrián Pastine.)