



## **EQUITABLE SPECIALIZED BLOCK-COLOURINGS OF STEINER TRIPLE SYSTEMS**

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In specialized block-colourings of Steiner triple systems, the triples incident with any element are coloured according to a given partition of the replication number. Such colourings are equitable if the partition is equitable, that is, the difference between any two of its parts is at most one. We examine equitable colourings for partitions having two or three parts, and completely characterize the former.

(This is a joint work with Mario Gionfriddo, Peter Horak and Lorenzo Milazzo.)