STRONGLY UNIFORM EXTENSIONS OF DUAL 2-DESIGNS

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A strongly α-uniform partial space of lines of order (s, t) is called an α-partial geometry. If $\alpha = t + 1$, then the geometry is called a dual 2-design. Locally triangular and locally Grassman graphs correspond to triangular extensions of certain dual 2-designs, and the class of strongly uniform quasi-biplanes coincides with the class of strongly uniform extensions of dual 2-designs. We study strongly uniform extensions of dual 2-designs.

Keywords: partial geometry, uniform extensions, 2-designs.

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