

One-point extensions of classical generalized hexagons

An De Wispelare

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We prove the uniqueness of the one-point extension of a generalized hexagon, Γ , of order 2, provided the following property holds: call S a first extension of Γ . Then for any three points x , y and z the distance from y to z in the derived generalized hexagon S_x is the same as from x to z in S_y .