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Kelly Isham*, ishamk@uci.edu. *A formula for the number of n -arcs in projective 3-space.* Preliminary report.

An n -arc in \mathbb{P}^k is a set of n points so that no $k + 1$ lie on a hyperplane. Glynn's Theorem gives a formula for the number of n -arcs in a projective plane of order q in terms of a polynomial in q and realizations of special point-line incidence structures called superfigurations. In this talk, we generalize this framework to count n -arcs in projective 3-space of order q . (Received February 29, 2020)