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## Inequalities on Well-Distributed Point Sets on Circles

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Abstract:	The setting is a finite set $P$ of points on the circumference of a circle, where all points are assigned non-negative real weights $w(p)$ . Let $P_i$ be all
	subsets of $P$ with $i$ points and no two distinct points within a fixed distance $d$ . We prove that $W_k^2 \geq W_{k+1} W_{k-1}$ where
	$W_k = \sum_{A \in \mathcal{P}_i} \prod_{p \in A} w(p)$ . This is done by first extending a theorem by
	Chudnovsky and Seymour on roots of stable set polynomials of claw-free graphs.
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