BEER-3 by Peter Lee, October 26

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9:34 AM

Consider $(1,2,3,\ldots,n) \in \mathbb{R}^n$ and its orbit under $\$_n$. ($\$_n$: permutations)

P_n is the convex hull of that. The faces are ordered partitions

$$[n] = S_1 \sqcup \ldots \sqcup S_r \qquad S_i \neq \emptyset$$

$$C_n = P_n / \$_r, r = 2, \ldots, n$$

$$QC_n = C_n \times \$_n / \sim$$