PSD-Throttling on Trees

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Positive Semidefinite Zero-Forcing (PSDZF) can be expressed as a coloring process on graphs, wherein one chooses an initial set of vertices $B$ to color blue, and then iteratively applies a color change rule (CCR-$Z_+$) to propagate the blue coloring throughout the graph. Throttling of PSDZF seeks to minimize the sum of the cardinality of $B$ and the number of iterations required to fully propagate through the graph when starting with $B$. This talk will present what is currently known about PSD-throttling on trees, with specific focus on finding the graphs with the largest PSD-throttling number across all trees of order $n$.

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