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Combinations of first and second eigenvalue of trees

For an n -vertex graph G , let $\lambda_1(G) \geq \lambda_2(G) \geq \dots \geq \lambda_n(G)$ denote the eigenvalues of its adjacency matrix. In this talk, the speaker will present results concerning the extremization of combinations of λ_1 and λ_2 in the class of trees. These results are part of an ongoing project with Bojan Mohar, Shivaramakrishna Pragada, and Hanmeng Zhan.