Dear Benjamin Giraldo:

On behalf of the editorial board of the Journal of Algebraic Combinatorics, I am writing to you to ask whether you would be willing to referee Dissimilarity maps on trees and the representation theory of $GL_n(\mathbb{C})$, for us. The abstract is attached below. The JAC has maintained high standards for acceptance from its beginning, and suitable manuscripts must show a significant use of both algebraic and combinatorial techniques.

If you are willing to referee this paper, I would be grateful if you could provide your report within the next two months.

The manuscript can be accessed at the following web site:

http://jaco.edmgr.com/

Your Reviewer Login username is: BGiraldo-975
Your password is: giraldo563247

Please either accept or decline this invitation online. Please DO NOT send your reply by return email.

Thank you very much for your help with this matter.

Sincerely,

Jonathan Brundan
Managing Editor
Journal of Algebraic Combinatorics

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We revisit the representation theory in type $A$ used previously to establish that the dissimilarity vectors of phylogenetic trees are points on the tropical Grassmannian variety. We use a different version of this construction to show that the space of phylogenetic trees $K_n$ maps to the tropical varieties of every flag variety of $GL_n(\mathbb{C})$. Using this map, we interpret the tropicalization of the semistandard tableaux basis of an irreducible representation of $GL_n(\mathbb{C})$ as combinatorial invariants of phylogenetic trees.