
The Prism tableau model for Schubert polynomials

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Abstract

The Schubert polynomials lift the Schur basis of symmetric polynomials into a basis for $\mathbb{Z}[x_1; x_2; \dots]$. We suggest the prism tableau model for these polynomials. A novel aspect of this alternative to earlier results is that it directly invokes semistandard tableaux; it does so as part of a colored tableau amalgam. In the Grassmannian case, a prism tableau with colors ignored is a semistandard Young tableau. Our arguments are developed from the Grobner geometry of matrix Schubert varieties.

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