Wednesday, February 3, 2021

PM Session

Speaker: Mark Shimozono, Virginia Tech

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Exercises

To compute $\tilde{\mathfrak{S}}_w$ use the divided difference definition.
For $\tilde{\mathfrak{S}}_w^\vee$ use the dual basis definition.

1. Starting with $i = 0$, find $\tilde{\mathfrak{S}}_{s_i}$ for all $i \in \tilde{I}$ (for arbitrary n).
2. For $n = 3$ find $\tilde{\mathfrak{S}}_{s_1 s_0}$ and $\tilde{\mathfrak{S}}_{s_2 s_0}$.
3. Find $\tilde{\mathfrak{S}}_w^\vee$ for $w \in \tilde{S}_3^0$ with $\ell(w) \leq 2$.