David Vogan and Timothy Ngotiaoco

November 4, 2019, *Principal series continued: $Sp(4,\mathbb{R})$*

`https://zoom.us/s/739477128`.

Suppose $B(\mathbb{R}) = H(\mathbb{R})N(\mathbb{R}) \subset G(\mathbb{R})$ is a Borel subgroup of a reductive group. Timothy last week talked about "normalizing" induction from (characters of) $H(\mathbb{R})$ to $G(\mathbb{R})$, in part to make it nearly true that

$$\mathrm{Ind}_{B(\mathbb{R})}^{G(\mathbb{R})}(\gamma) = \mathrm{Ind}_{B}^{G}(w \cdot \gamma)$$

for any character γ of $H(\mathbb{R})$ and any

$$w \in W(\mathbb{R}) = N_{G(\mathbb{R})}(H(\mathbb{R}))/H(\mathbb{R}).$$

Timothy will finish up that discussion today.

Then I'll talk more about how to enter such representations into atlas, and what atlas can do with them.