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Vogan-Zuckerman Characters and Semisimple Coadjoint Orbits.

Vogan and Zuckerman constructed an irreducible, unitary representation $\pi(\mathcal{O}, \Lambda)$ of a real, reductive algebraic group $G_{\mathbb{R}}$ for every semisimple orbital parameter (\mathcal{O}, Λ) in the good range. In this talk, we present an integral formula for the character of $\pi(\mathcal{O}, \Lambda)$ in terms of the geometry of the orbital parameter (\mathcal{O}, Λ) . Special cases of this formula were previously obtained by Harish-Chandra and Kirillov when $G_{\mathbb{R}}$ is compact and by Duflo and Rossmann when \mathcal{O} is of maximal dimension. (Received September 18, 2016)