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Monomial representations with multiplicities of discrete type

Abstract. Let $G = \exp \mathfrak{g}$ be an exponential solvable Lie group with Lie algebra \mathfrak{g} and \widehat{G} the unitary dual of G . Let $H = \exp \mathfrak{h}$ be a closed connected subgroup of G and χ a unitary character of H . We construct the induced representation $\tau = \text{ind}_H^G \chi$ of G and consider the canonical irreducible decomposition of τ :

$$\tau \simeq \int_{\widehat{G}}^{\oplus} m(\pi) \pi d\mu(\pi)$$

with a Borel measure μ on \widehat{G} and the multiplicity function $m(\cdot)$. We discuss some topics concerning τ when the data (G, H, χ) satisfy a certain condition. This a joint work with Ali Baklouti and Jean Ludwig.