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A deformation approach of the Kirillov map for exponential groups

Abstract. We consider a particular set of ideals of the C^*-algebra of the tangent groupoid of an exponential Lie group G, such that the evaluation ev_1 at $t = 1$ maps this set onto the unitary dual of G, whereas the evaluation ev_0 at $t = 0$ identifies it with the set of coadjoint orbits. The composition $ev_1 \circ ev_0^{-1}$ is the Kirillov map. We will indicate how an alternative proof of the Leptin-Ludwig bicontinuity theorem should be expected along these lines. Joint work in progress with A. Baklouti and S. Dhieb.