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Frames arising from solvable actions.

In this presentation, we will provide a unified method which is exploited to construct reproducing systems arising from unitary irreducible representations of solvable Lie groups. In contrast to well-known techniques such as the coorbit theory and other discretization schemes, we do not assume the integrability or square-integrability of the representations of interest. Additionally, we will present various examples illustrating how our method handles a variety of groups relevant to wavelet theory and time-frequency analysis. (Received January 21, 2018)