INFINITE SPIN REPRESENTATIONS: GEOMETRY AND QUANTUM FIELDS

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Using conformal mappings, we will discuss a new construction which in the framework of Wigner's representation-theoretic classification of elementary particles, relates the so-called infinite spin representations to the usual massive representations in an intuitive way. We will also remark on the question in which ways the localization of the corresponding quantum fields (which are localized in spacelike cones) can be sharpened.