

Pozvánka na seminář

skupiny Metody algebry a funkcionální analýzy v aplikacích

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Oscilátorové realizace reprezentací grupy $SU(2,2)$

Abstract:

The fundamental role of conformal group $SO(4,2)$ for Minkowski space-time was first stressed by Dirac. Its covering group $SU(2,2)$ describes conformal properties of spinning particles. The group $SU(2,2)$ and its orbits are fundamental for the twistor theory. It is also of essential importance for the ADS-CFT theory.

We give a simple oscillator realization of all discrete series representations for the group $SU(2,2)$ in terms of 8 bosonic oscillator pairs. We expect that such oscillator realizations can be generalized to the case $SU(m,n)$ discrete series representations.

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Severin Pošta