

**Jerzy Kijowski** (Centrum Fizyki Teoretycznej PAN, Warsaw, Poland)  
*Tomography, wave equation and symplectic geometry*

**Abstract:** A simple integral transformation will be defined in the set of functions defined on a sphere  $B(0, \mathbb{R})$  in the euclidean 3-space. To find the inverse transformation formula, the symplectic structure in the space of solutions of the wave equation will be used. Our problem sheds new light on the singular initial-value problem and the Trautman- Bondi theory of radiation.