

A Characterization of Poisson structures compatible with the canonical metric on $\mathbb{R}^4$

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This talk deal with the geometry of pseudo-Riemannian Poisson manifold. Here, we present the notion of compatibility between Riemannian and Poisson structure. At last we give a characterization of Poisson structure compatible with a four-dimensional manifold endowed with its canonical metric.

Keywords: Poisson manifold, Poisson structures, canonical metric.

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