

Title: The \mathcal{L} -dual of a Matsumoto space

Author(s): Ioana Monica Masca, Vasile Sorin Sabau and Hideo Shimada

In [?], [?] the \mathcal{L} -duals of a Randers and Kropina space were studied. In this paper we shall discuss the \mathcal{L} -dual of a Matsumoto space. The metric of this \mathcal{L} -dual space is completely new and it brings a new idea about \mathcal{L} -duality because the \mathcal{L} -dual of Matsumoto metric can be given by means of four quadratic forms and 1-forms on T^*M constructed only with the Riemannian metric coefficients, $a_{ij}(x)$ and the 1-form coefficients $b_i(x)$.

Address:

Ioana Monica Masca
Colegiul National de Informatica 'Grigore Moisil' Braşov
Calea Bucureşti 75 Brasov
Romania
E-mail: masca_ioana@rdsbv.ro

Address:

Vasile Sorin Sabau
Hokkaido Tokai University
Minamiku
Minamisawa, 5-1-1-1, Sapporo
Japan
E-mail: sorin@cc.htokai.ac.jp

Address:

Hideo Shimada
Hokkaido Tokai University
Minamiku
Minamisawa, 5-1-1-1, Sapporo
Japan
E-mail: shimada@es.htokai.ac.jp