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Natural affinors on $(J^{r,s,q}(\cdot, \mathbb{R}^{1,1})_0)^$*

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Abstract: Let $r, s, q, m, n \in \mathbb{N}$ be such that $s \geq r \leq q$. Let Y be a fibered manifold with m -dimensional basis and n -dimensional fibers. All natural affinors on $(J^{r,s,q}(Y, \mathbb{R}^{1,1})_0)^*$ are classified. It is deduced that there is no natural generalized connection on $(J^{r,s,q}(Y, \mathbb{R}^{1,1})_0)^*$. Similar problems with $(J^{r,s}(Y, \mathbb{R})_0)^*$ instead of $(J^{r,s,q}(Y, \mathbb{R}^{1,1})_0)^*$ are solved.

Keywords: bundle functors, natural transformations, natural affinors

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