

# Turkish Journal of Mathematics

Turkish Journal

of

Mathematics

Applications of the Tachibana Operator on Problems of Lifts

A. MAĞDEN, E. KADIOĞLU, A.A. SALIMOV

Atatürk University,

Faculty of Arts and Sciences,

Department of Mathematics,

25240 Erzurum-TURKEY

 [Keywords](#)  
 [Authors](#)



**Abstract:** The purpose of the present paper is to study, using the Tachibana operator, the complete lifts of affiner structures along a pure cross-section of the tensor bundle and to investigate their transfers. The results obtained are to some extent similar to results previously established for tangent (cotangent) bundles  $\backslash\brack 1\backslash\brack$ . However there are various important differences and it appears that the problem of lifting affiner structures to the tensor bundle on the pure cross-section presents difficulties which are not encountered in the case of the tangent (cotangent) bundle.

**Key Words:** Tensor, bundle, affiner, complete lift, pure cross-section, Tachibana operator.

[math@tubitak.gov.tr](mailto:math@tubitak.gov.tr)

[Scientific Journals Home](#)  
[Page](#)

---

Turk. J. Math., **24**, (2000), 173-183.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Math., vol.24, iss.2.](#)