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Thiago H Freitas, Victor Hugo Jorge Perez, Roger A Wiegand and Sylvia M Wiegand*, Math, UNL, Lincoln, NE 685880130. *Vanishing of Tor over fiber products.*

Let (S, \mathfrak{m}, k) and (T, \mathfrak{n}, k) be local rings, and let R denote their fiber product over their common residue field k . Inspired by work of Nasseh and Sather-Wagstaff, we explore consequences of vanishing of $\mathrm{Tor}_m^R(M, N)$ for various values of m , where M and N are finitely generated R -modules. (Received July 06, 2020)