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and **Roger Wiegand**. *Serre conditions and vanishing of Tor*.

In the complete intersection setting, Serre conditions on the tensor product of a pair of modules and on the factors, along with locally free conditions, have been used by H.Dao to show vanishing of Tor. The locally free condition may be replaced by conditions of: eventual finite length of Tor and vanishing of the eta pairing (originally of Dao). With these conditions the Serre conditions can be weakened by one both on the tensor product and on the factors. Our work showing this uses push forward/quasi-lifting constructions. (Received February 09, 2014)