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*A complement to the  $\nu$ -invariant in characteristic 2*

For a field  $F$  of characteristic 2, let  $\nu'(F)$  be the smallest integer  $n$  such that  $(IF)^n = 0$  (if this minimum exists), where  $IF$  is the ideal of even dimensional bilinear forms over  $F$ . In our talk, we give a complete answer to the behavior of the invariant  $\nu'(F)$  under finite extensions of  $F$ . This completes a previous work by Aravire and Baeza where the same problem was considered for the  $\nu$ -invariant defined by the filtration  $(IF)^n \otimes W_q(F) = 0$  of the Witt group  $W_q(F)$  of nonsingular quadratic forms over  $F$ .