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Direct and inverse results on the convergence of row sequences of Hermite-Padé approximation

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We give a Montessus de Ballore type theorem for row sequences of Hermite-
Padé approximations of vector valued analytic functions which refines some
results due to P.R. Graves-Morris and E.B. Saff. We also consider the in-
verse problem in which the location and order of the poles of a vector analytic
function is deduced from the asymptotic behavior of the sequence of poles
of the approximating vector rational functions.