

Separable Banach spaces whose dual spaces are not analytic in the Mackey-star topology

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By using a result of R. B. Kirk in *A note on the Mackey topology for $(C^b(X)^*, C^b(X))$* , Pacific Journal of Mathematics, 45, 2 (1973), 543–554, we show that there are separable Banach spaces such that their dual spaces, endowed with the Mackey-star topology, are not analytic. This solves a question by J. Kąkol and M. López-Pellicer in *On realcompact topological vector spaces*, RACSAM 105 (2011), 39–70.