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Marco Abate* (abate@dm.unipi.it), Dipartimento di Matematica, Università di Pisa, Largo Pontecorvo 5, 56017 Pisa, Pisa, Italy, **Jasmin Raissy** (jasmin.raissy@math.univ-toulouse.fr), Institut de Mathématiques de Toulouse, Université Paul Sabatier, 118 Route de Narbonne, 31062 Toulouse, France, and **Alberto Saracco** (alberto.saracco@unipr.it), Dipartimento di Matematica, Università di Parma, Parco Area delle Scienze 53/A, 43124 Parma, Italy. *Toeplitz operators and Carleson measures in strongly pseudoconvex domains.*

We study mapping properties of Toeplitz operators associated to a finite positive Borel measure on a bounded strongly pseudoconvex domain $D \subset \subset \mathbb{C}^n$. In particular, we give sharp conditions on the measure ensuring that the associated Toeplitz operator maps the Bergman space $A^p(D)$ into $A^r(D)$ with $r > p$, generalizing and making more precise results by Čučković and McNeal. To do so, we give a geometric characterization of Carleson measures and of vanishing Carleson measures of weighted Bergman spaces in terms of the intrinsic Kobayashi geometry of the domain, generalizing to this setting results obtained by Kaptanoğlu for the unit ball. (Received September 15, 2012)