





Now as an application of above theorem, we get the following partial p -compact version of a result of [E. Toma, 1993] for 2-homogenous polynomials.

Corollary 5 [E.C. and A.K., 2016]

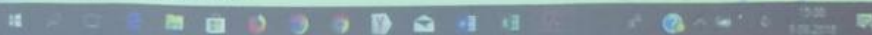
Let X be a Banach space with X' having the AP and let $2 \leq r < \infty$. Then for a $P \in P_{wu}(^2X)$ with T_P being r -compact, given any $\varepsilon > 0$ there exists an r -compact subset K'_ε of X' such that

$$|P(x)| \leq \varepsilon \|x\| \sup_{k' \in K'_\varepsilon} |k'(x)| + \sup_{k' \in K'_\varepsilon} |k'(x)|^2$$

for all $x \in X$.

Proof Let $P \in P_{wu}(^2X)$ with T_P being r -compact, $2 \leq r < \infty$. Then taking $H := \{T_P\}$ and applying Theorem 10 we obtain the desired inequality.

$X \rightarrow K$
non her
punkt alt
icm,
-co(syn)
 $(\varepsilon_n)_{n \in \mathbb{N}}$
 $(a_n)_{n \in \mathbb{N}}$
 $\mathbb{R} \rightarrow p$ -kompatt




Then for a P
there exists an

$|P|$

for all $x \in X$

Proof Let $P \in$
Then taking H
desired inequality

$T: X \rightarrow Y = (C[a,b])$ $P \subset K$
 X AP $\Rightarrow P$ AP
 $T: C[a,b] \rightarrow C[a,b]$
 $(f, g) \mapsto T((f, g)) = (a, x^n)_{n \in \mathbb{N}}$
 $\|a\| = \|a\|_{\infty} = \sup_{t \in [a,b]} |a(t)|$



$P(X) \quad P: X \rightarrow K$
 X' always has
 K kompakt alt
 Emissi için,
 $K \subset X'$
 $k \in K \Rightarrow$
 $k'(x)$
 $|x'(k)|^p$
 $X \xrightarrow{T \in \mathcal{L}(X, Y)} Y$
 $\Rightarrow \mathcal{B} = P$ -kompakt

$- \cos(x)$
 $(k, a) \in \mathcal{B}(X)$
 $(a, e) \in \mathcal{B}(Y)$

