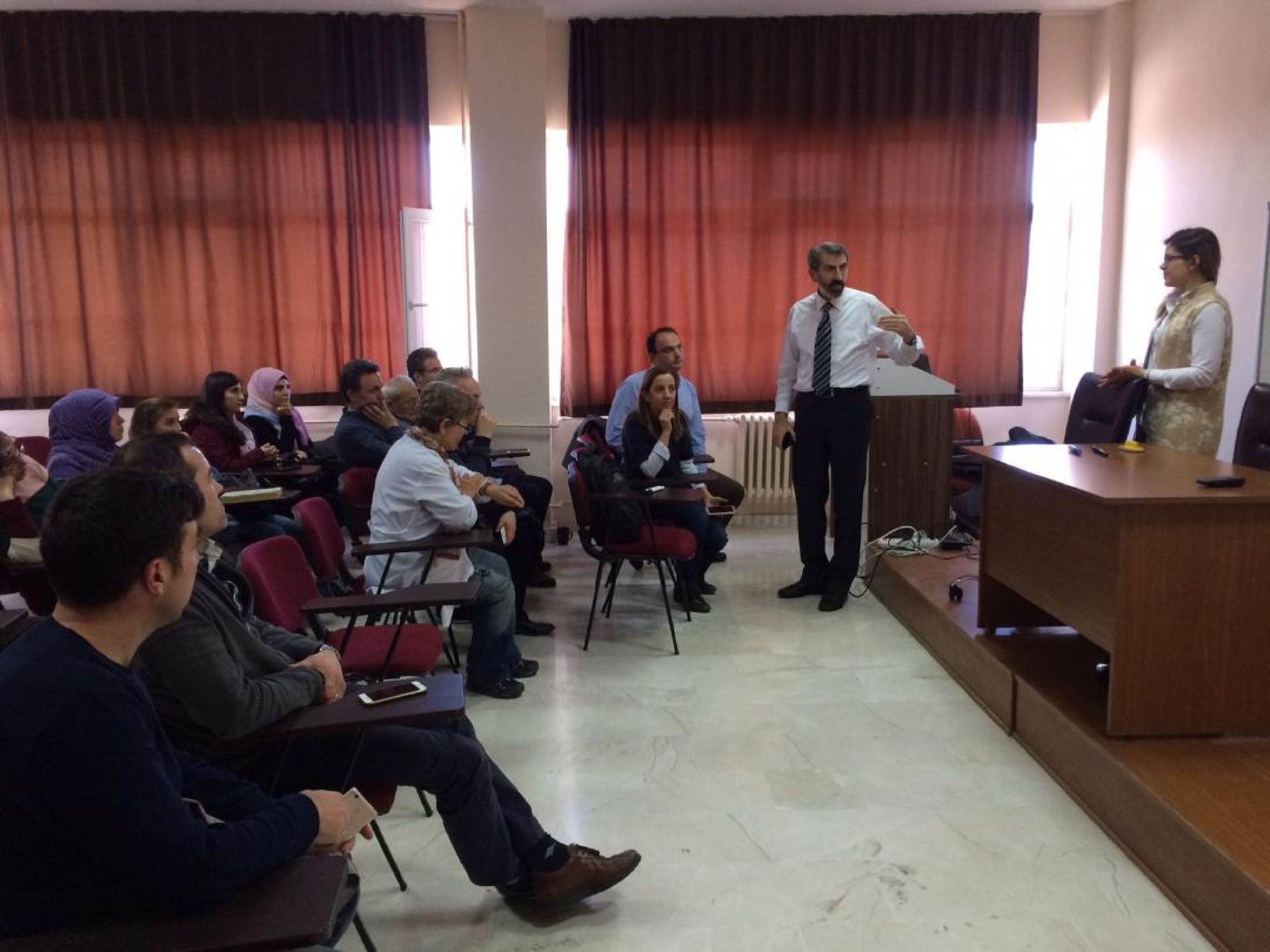
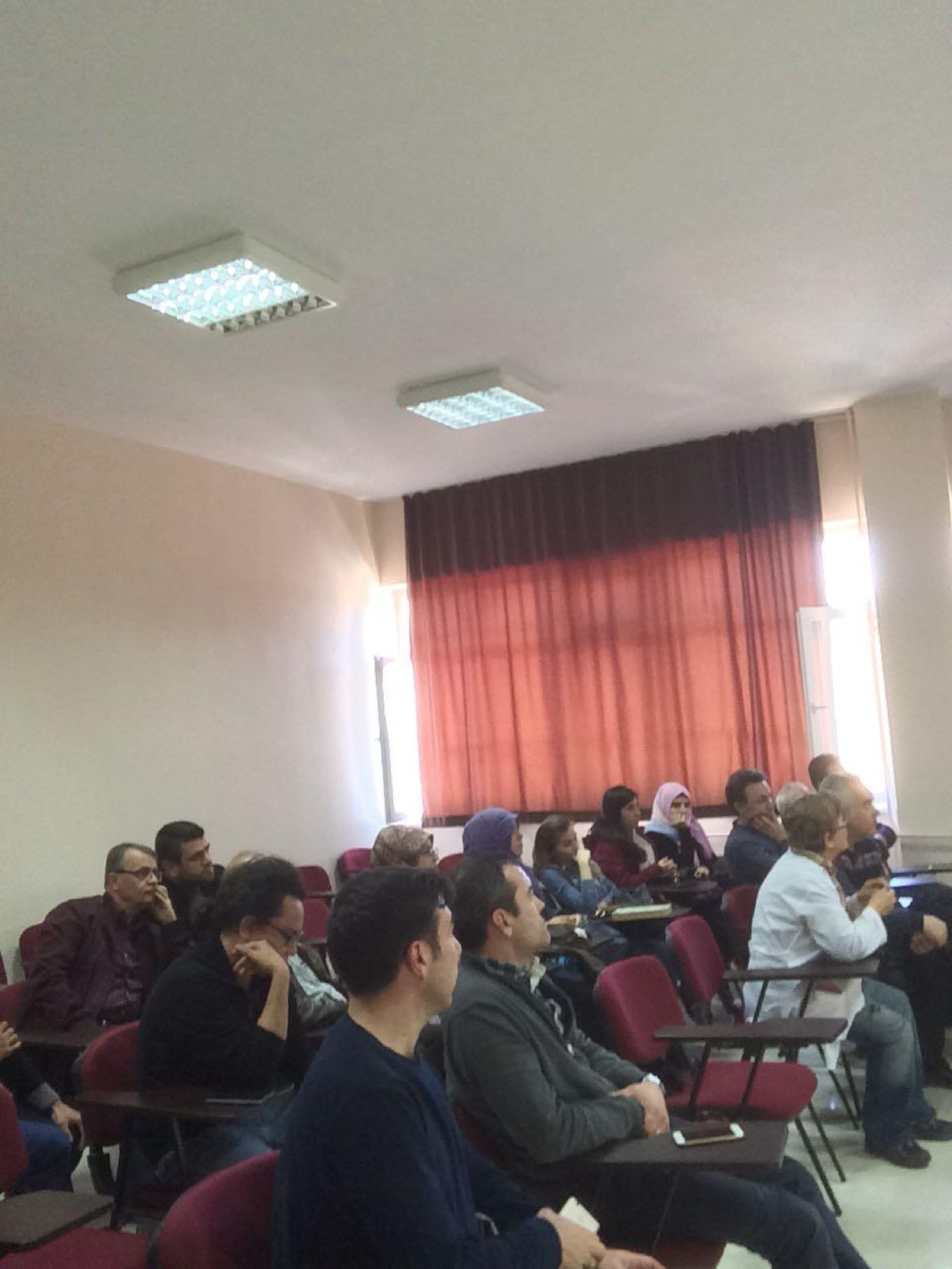




Now as an application of above theorem, we get the following partial p-compact version of a result of [E. Toma, 1993] for 2-homogenous polynomials.

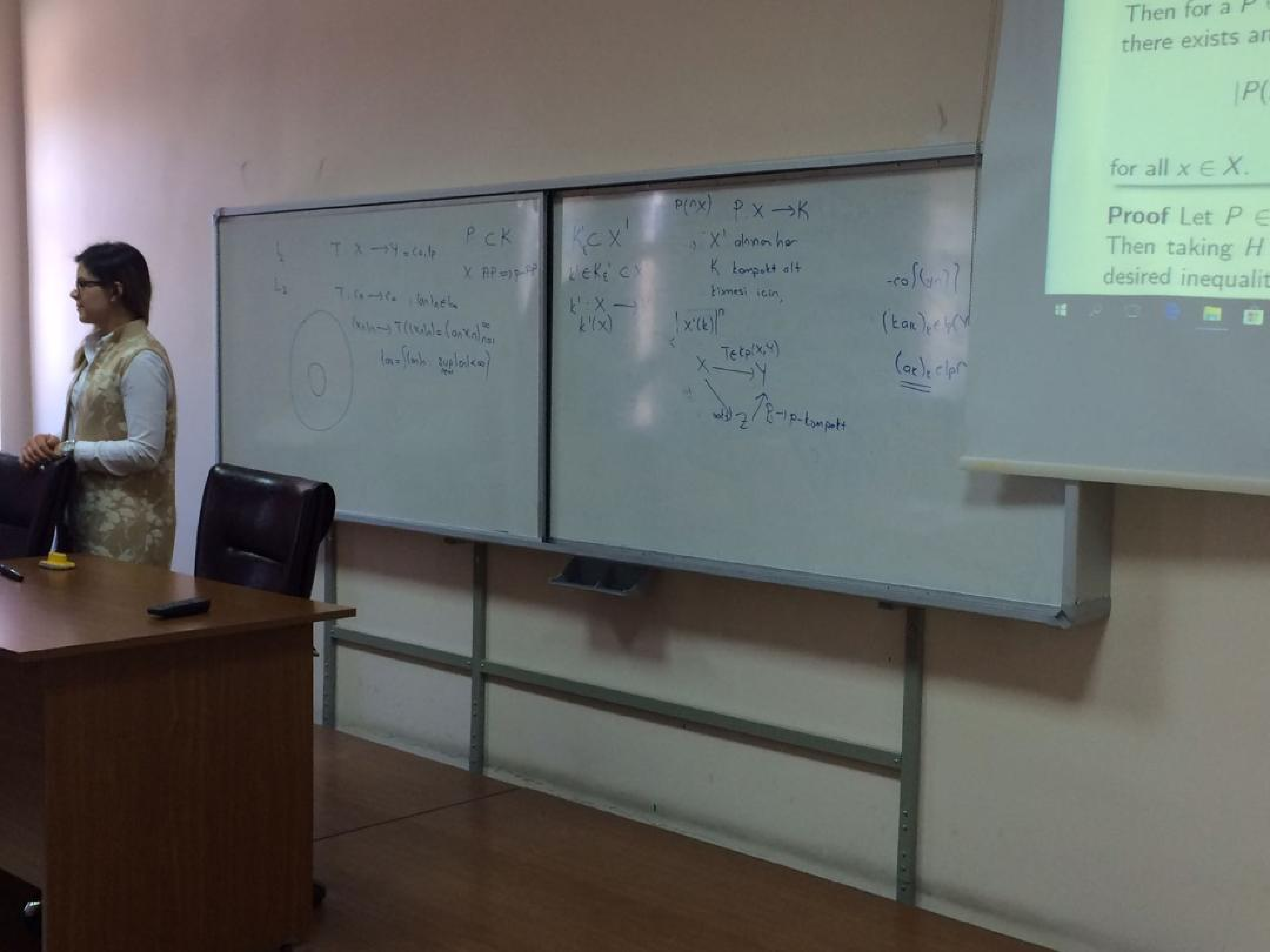
Corollary 5 [E.Ç. and A.K., 2016]

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.


Then for a P
there exists an
for all x ∈ X.
Proof Let P ∈
Then taking H
desired inequalit