Borel Functional Calculus	
Notation: IC YCC is a compact set, then BCYD=all bounded Bovel memourable functions on Y.	
CCY36 aclas contains 74e's!3	
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canital	
Thm: Let x68HD 60 a cocator. There exists a unique +- bundance as a CHDB3x tol.	CHO with libits!
Such that:	
a then of the	
CID & extends the cont. functional calculus, i.e. Olococxod: CCOCxod -> C*Clixo is the cont. functional c	akulus
printuse amoo, Ilfullo EM	
cas if fund are all in 15cccass and are uniformly bounded, then Octobe.	
Notation: OCE)= fcx).	
What does a do?	
1=1d=> Φ(10)=1d(x0, 50 x	
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2x c 3 ₁ ,	
ž x*	
42½> ×3× *	
T all_cfc	
1st homework:	
05451 => 05666561 => Ceres eroj.	
d.	
Example: If Oaxsi, x68CHD, show x" converges s.u. to a projection.	
Solution: Use Borel Fine. Cyle., we must show that ideexs countries by 4+343 converges pointuse to a che	v. func on 600.
160012, so 1 - 1: 6 121 . So, 1 - 5 X (12 CA). Done!	
16(0)17, so 1"-> [1: 4=1 = So. 1"->)(1) (1) Oone!	
s.o., δο, x ⁿ ->ρ and 1 ⁿ ->λειειλ3. Note 1.·λειειλ3=λειειλ3, so χρερ.	